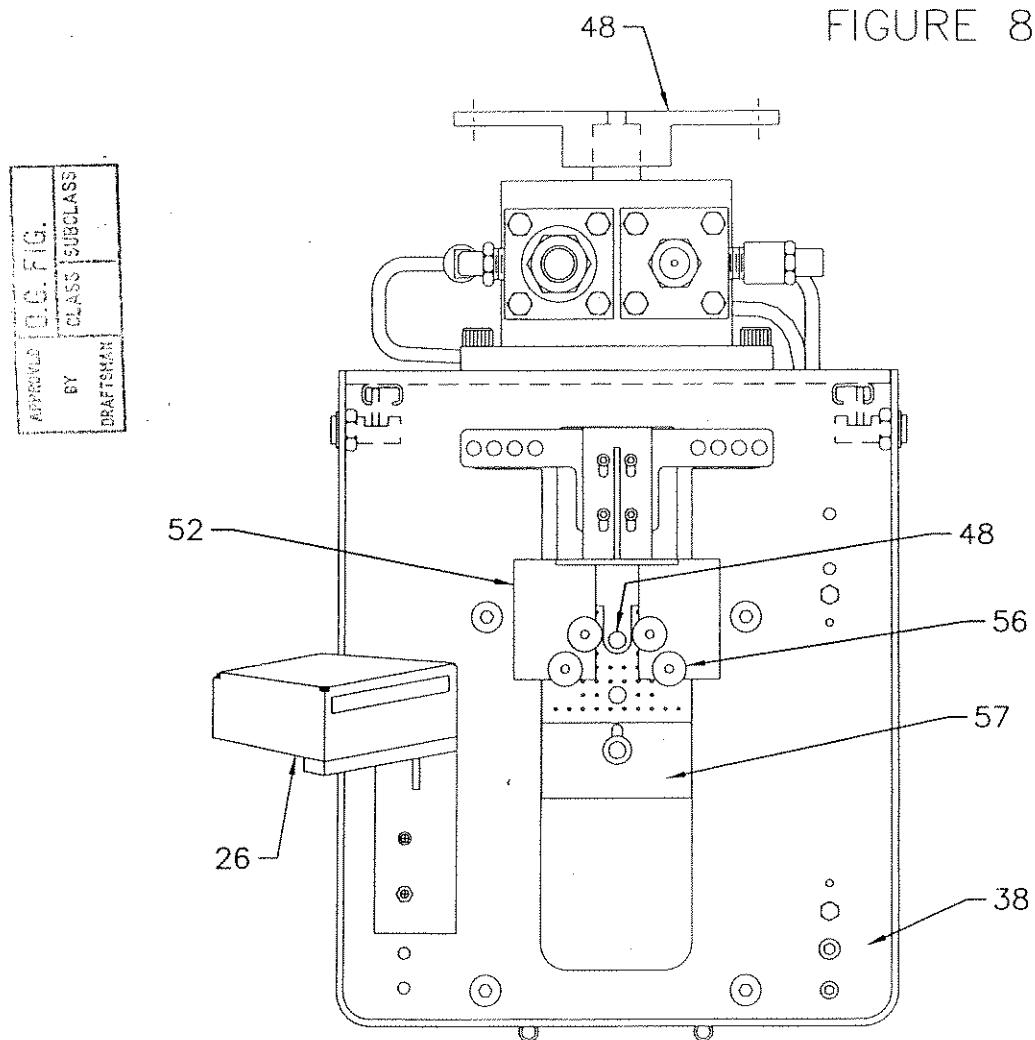


Exhibit I

Part 2

00/452646

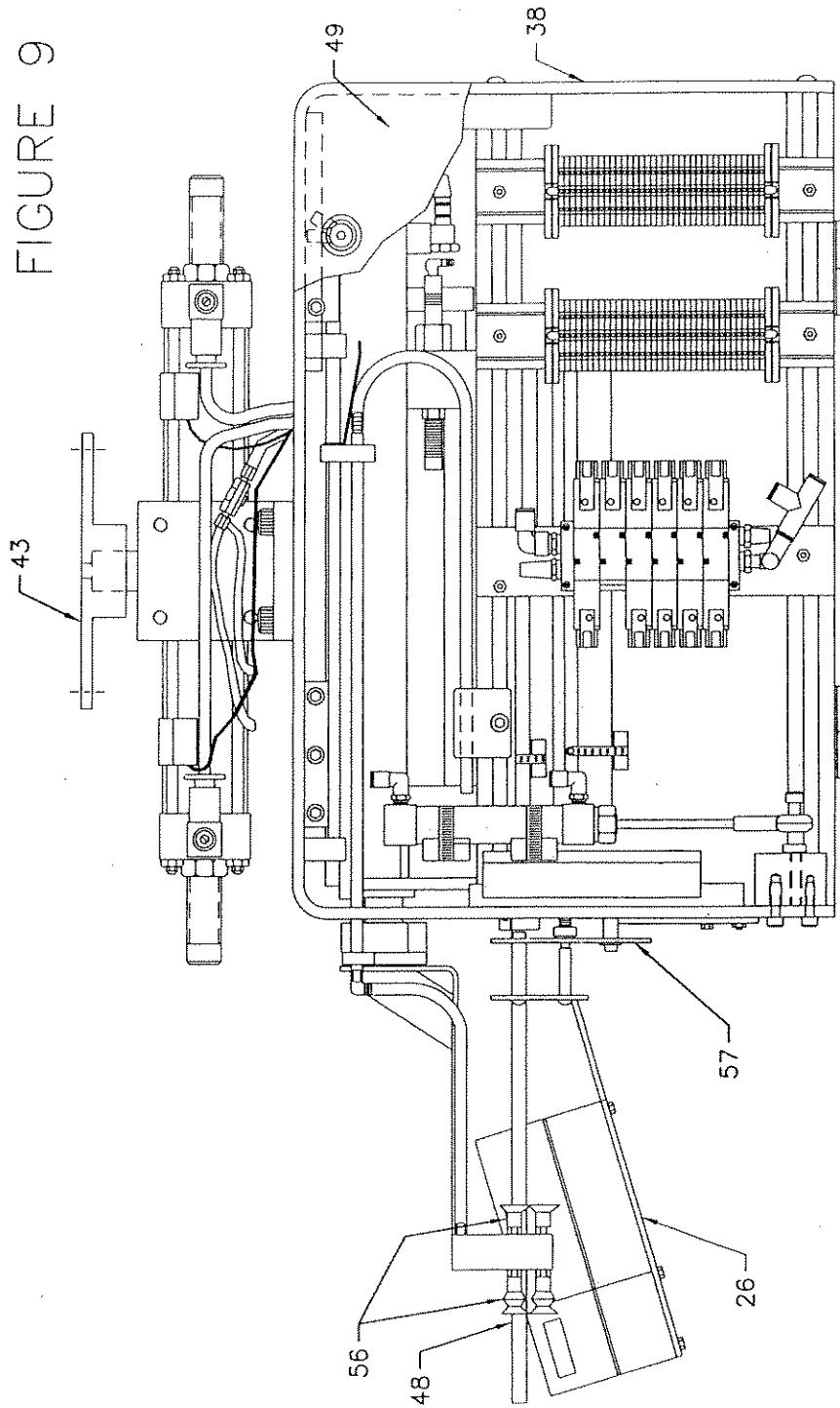
FIGURE 8



11/452646

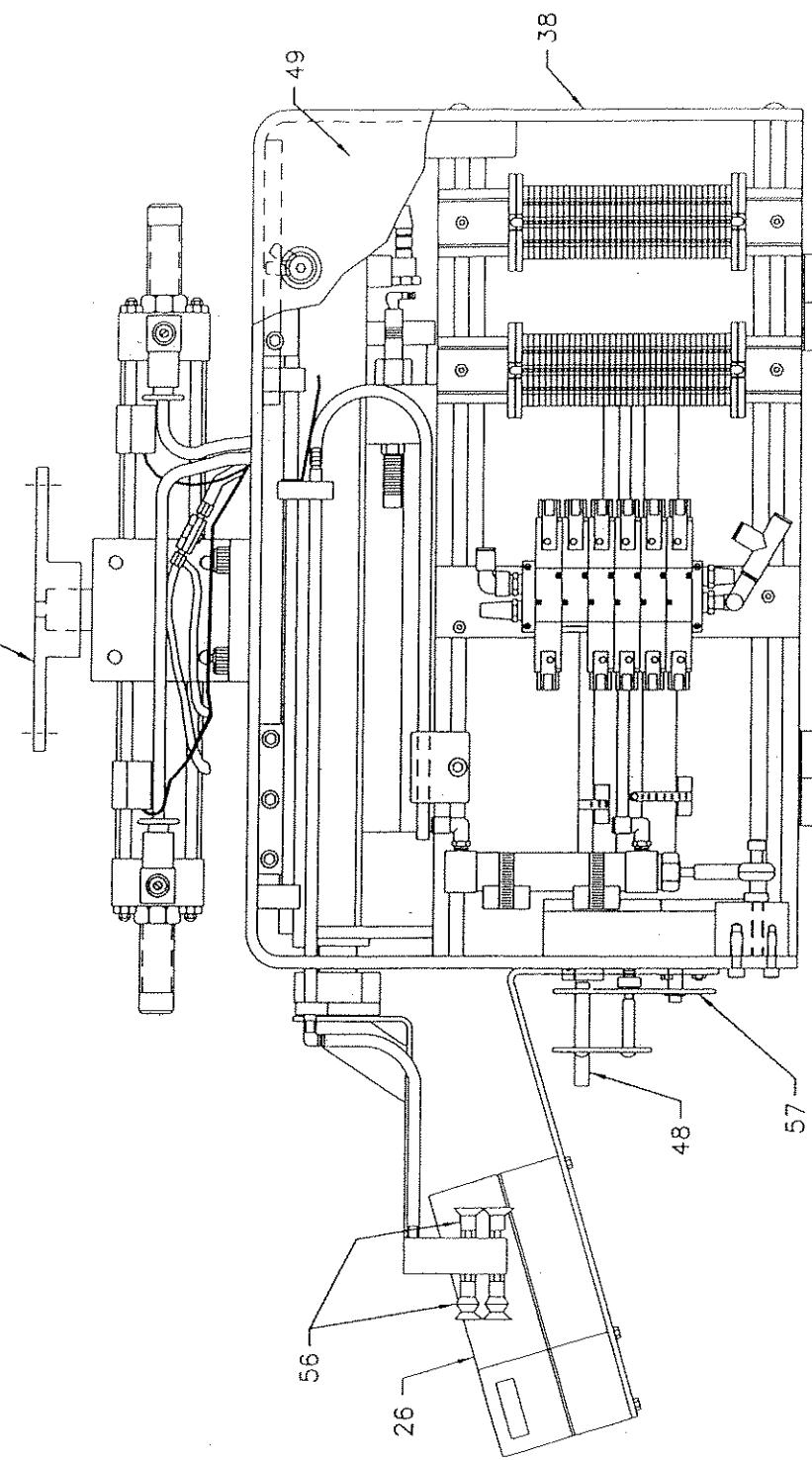
FIGURE 9

APPROVED
O.G. FIG.
CLASS SUBCLASS
BY DRAFTSMAN



W/452646

FIGURE 10



1/452646

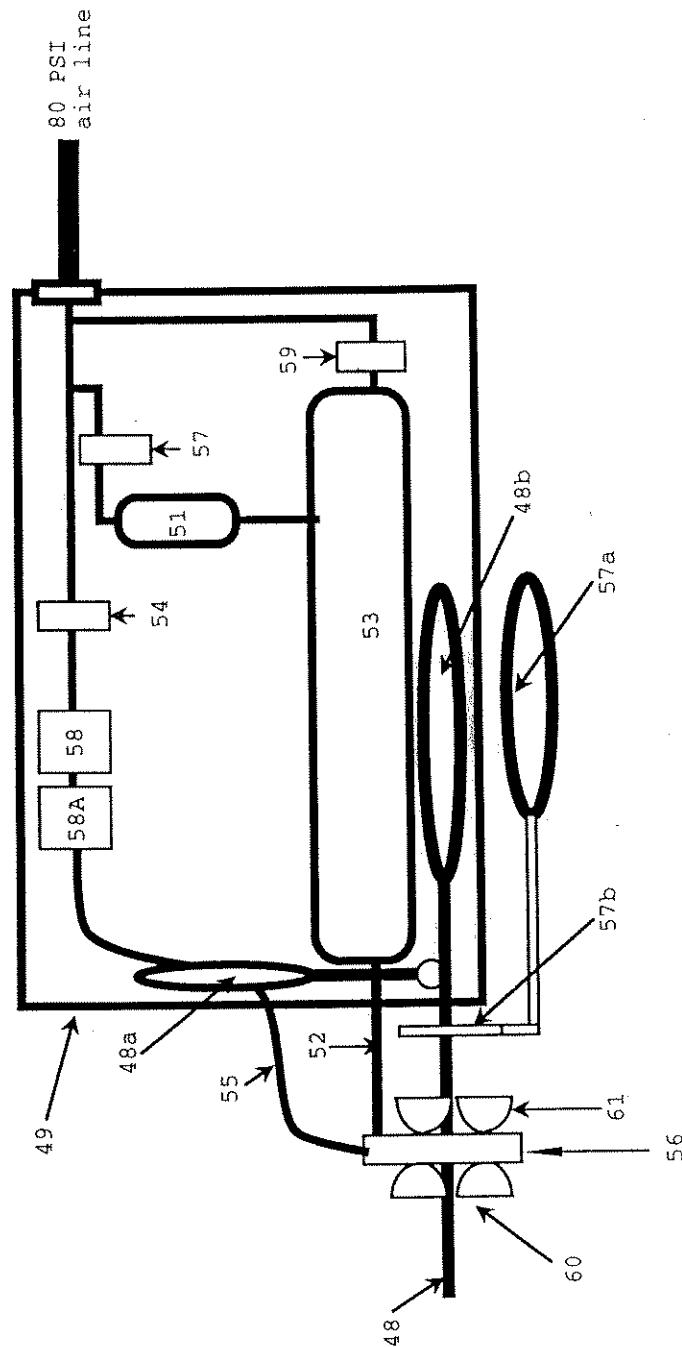


Figure 11

08/15/2008
10/452646

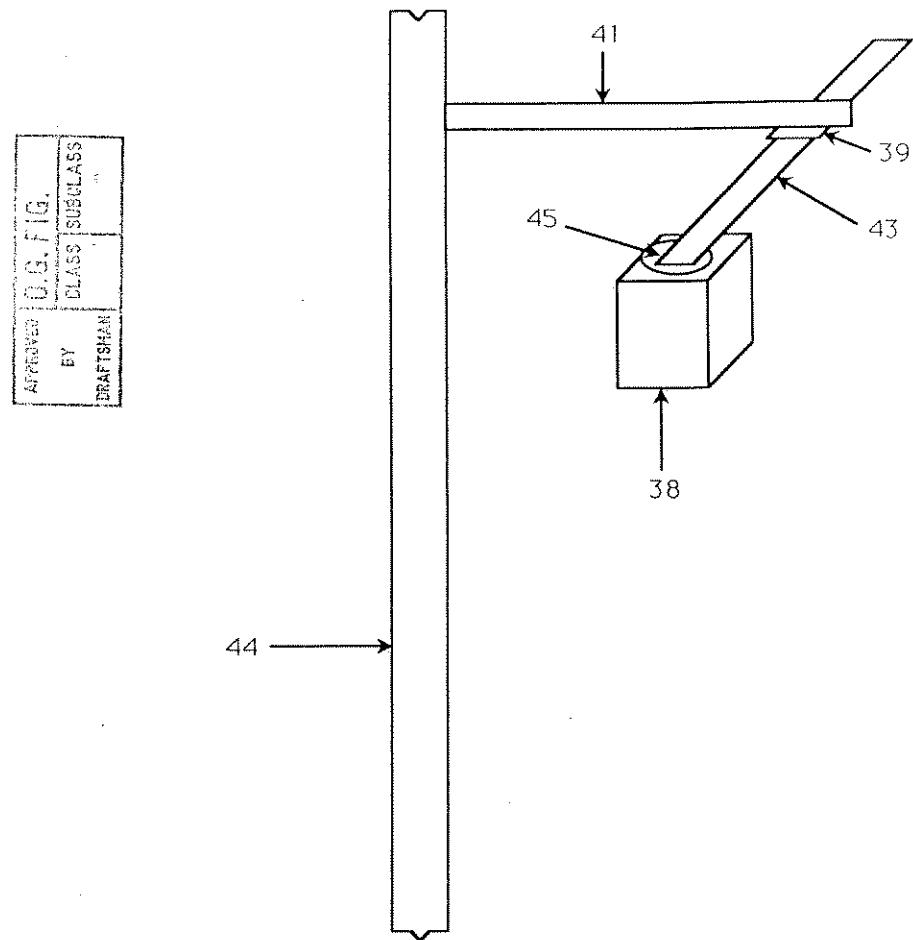


Figure 12

00/452646

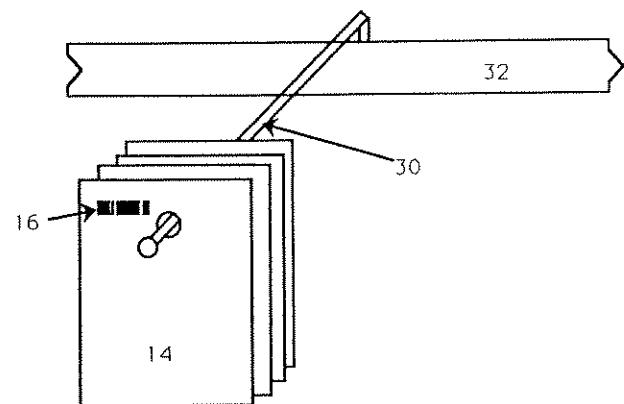
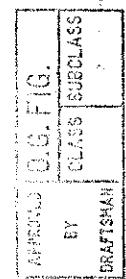


Figure 13

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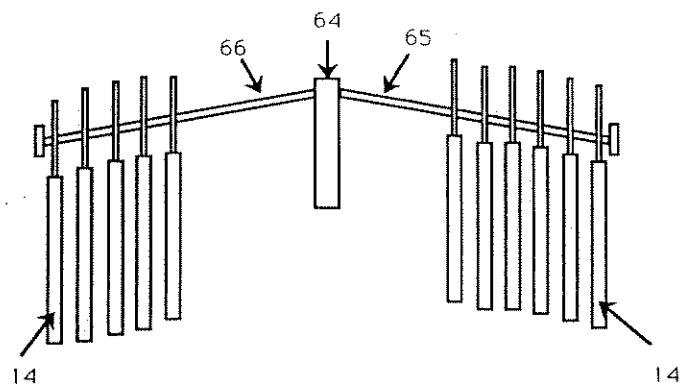
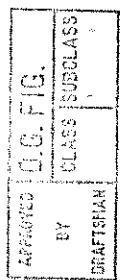


Figure 14

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452646

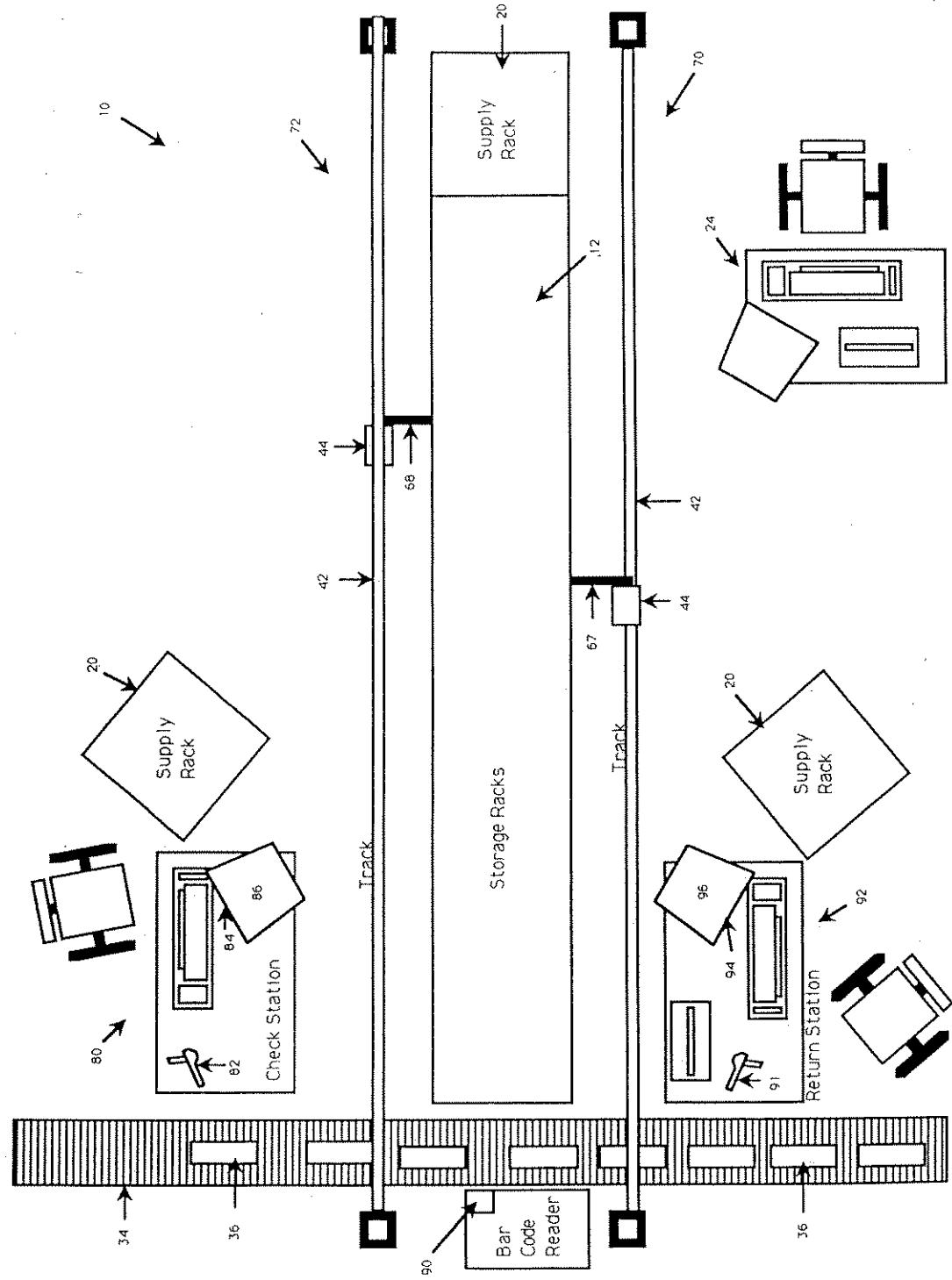
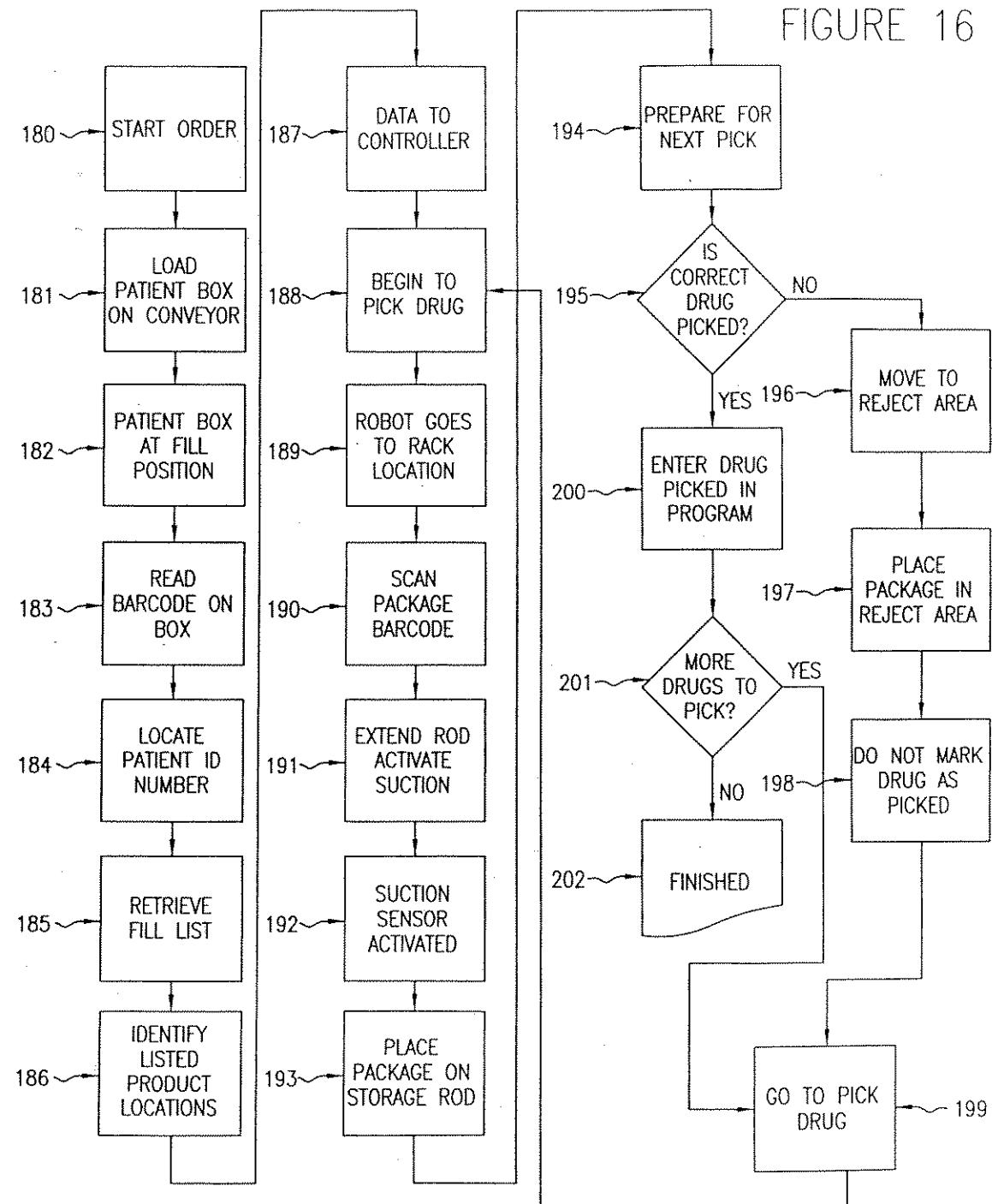


Figure 15

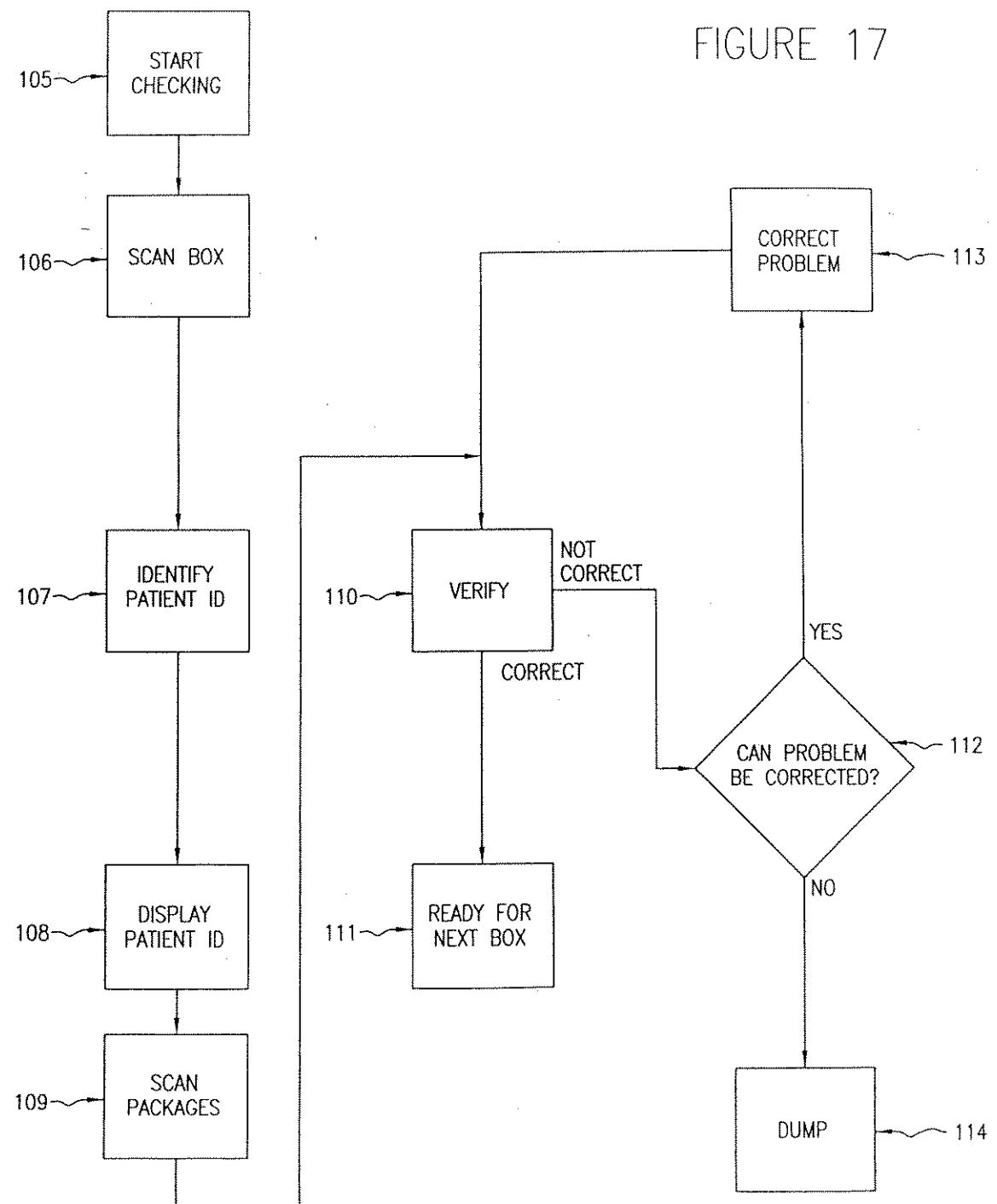
00/452646

FIGURE 16



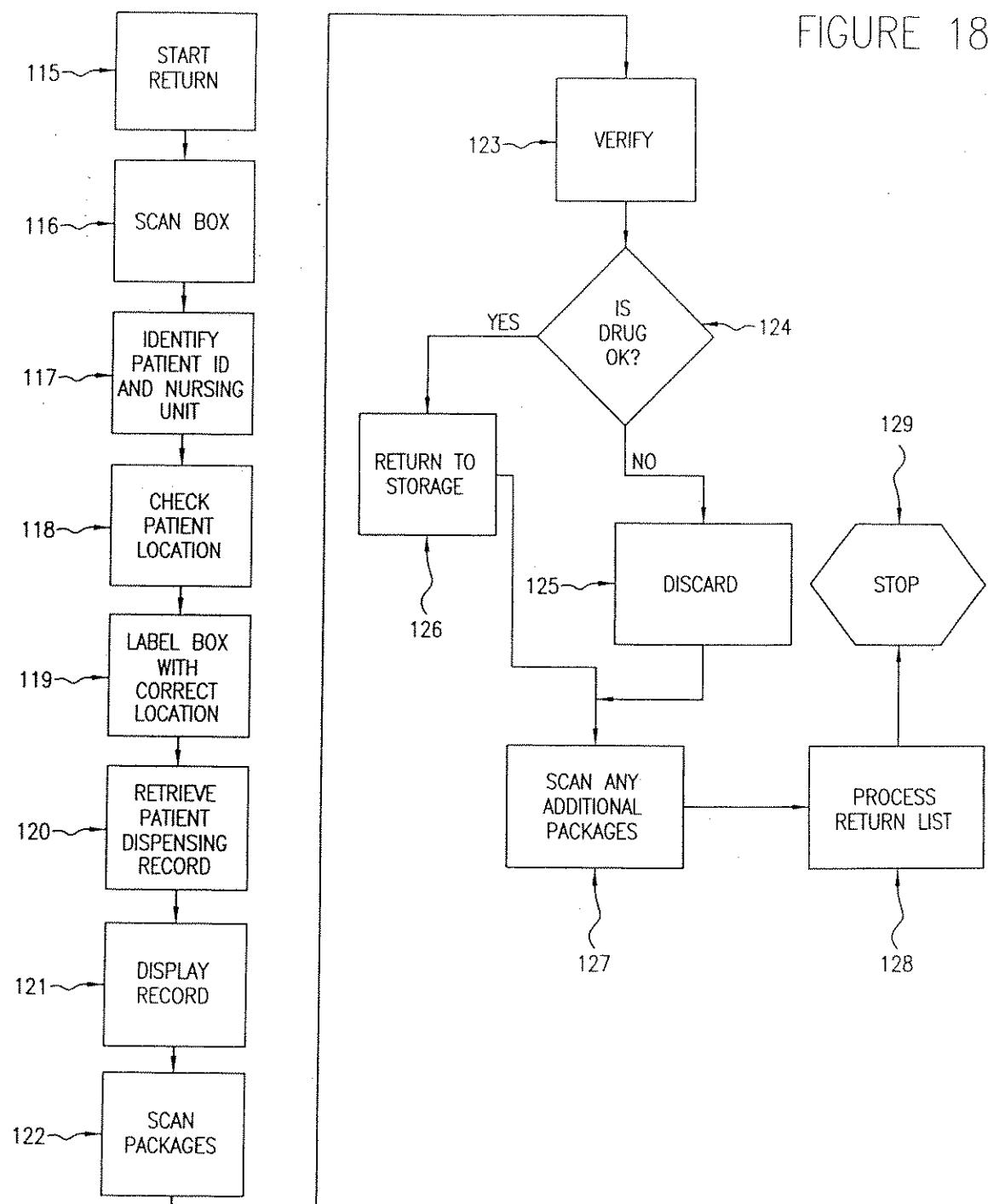
0/452646

FIGURE 17



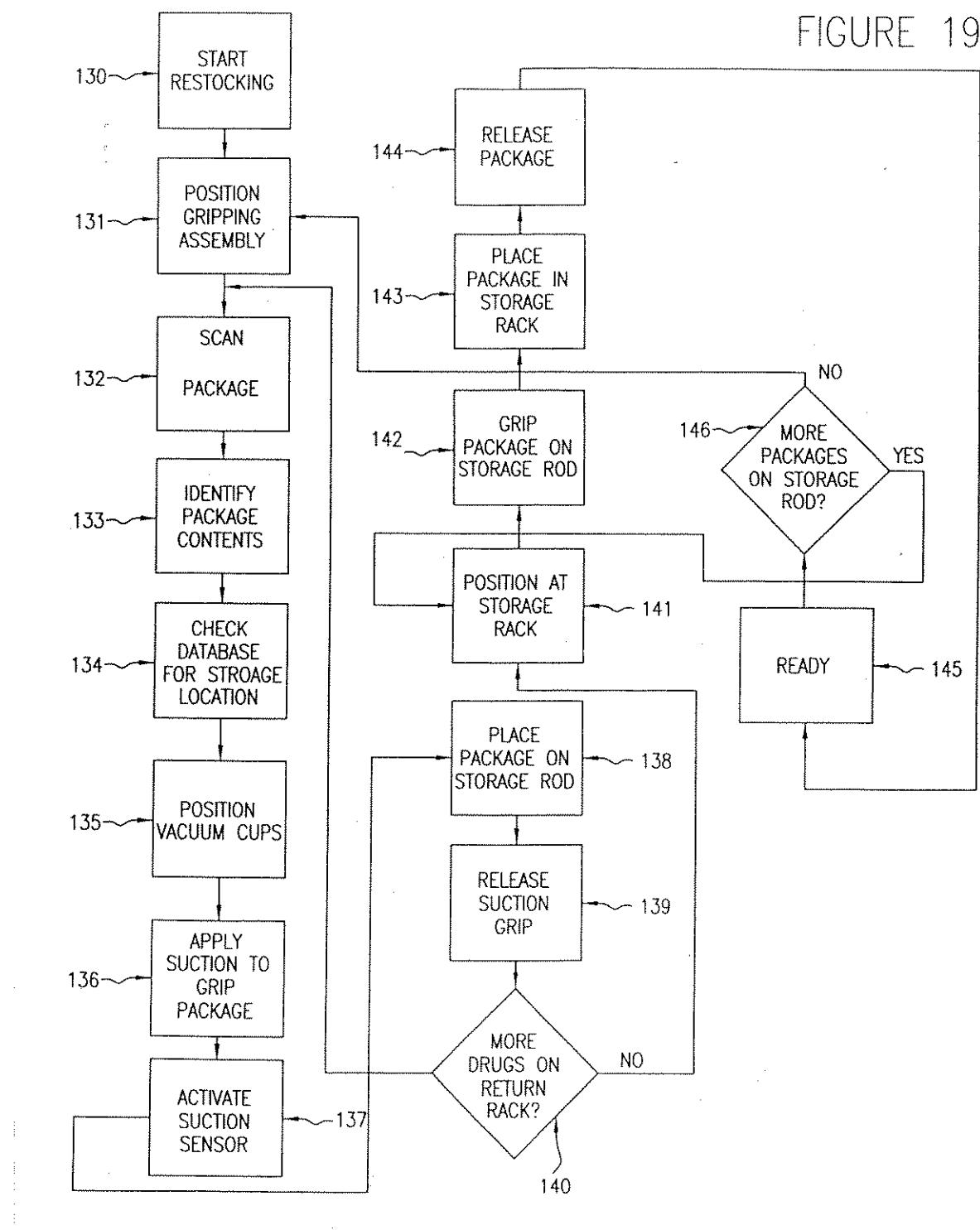
W/452646

FIGURE 18



M/452646

FIGURE 19



**PRINT OF DRAWINGS
AS ORIGINALLY FILED**

08/452646

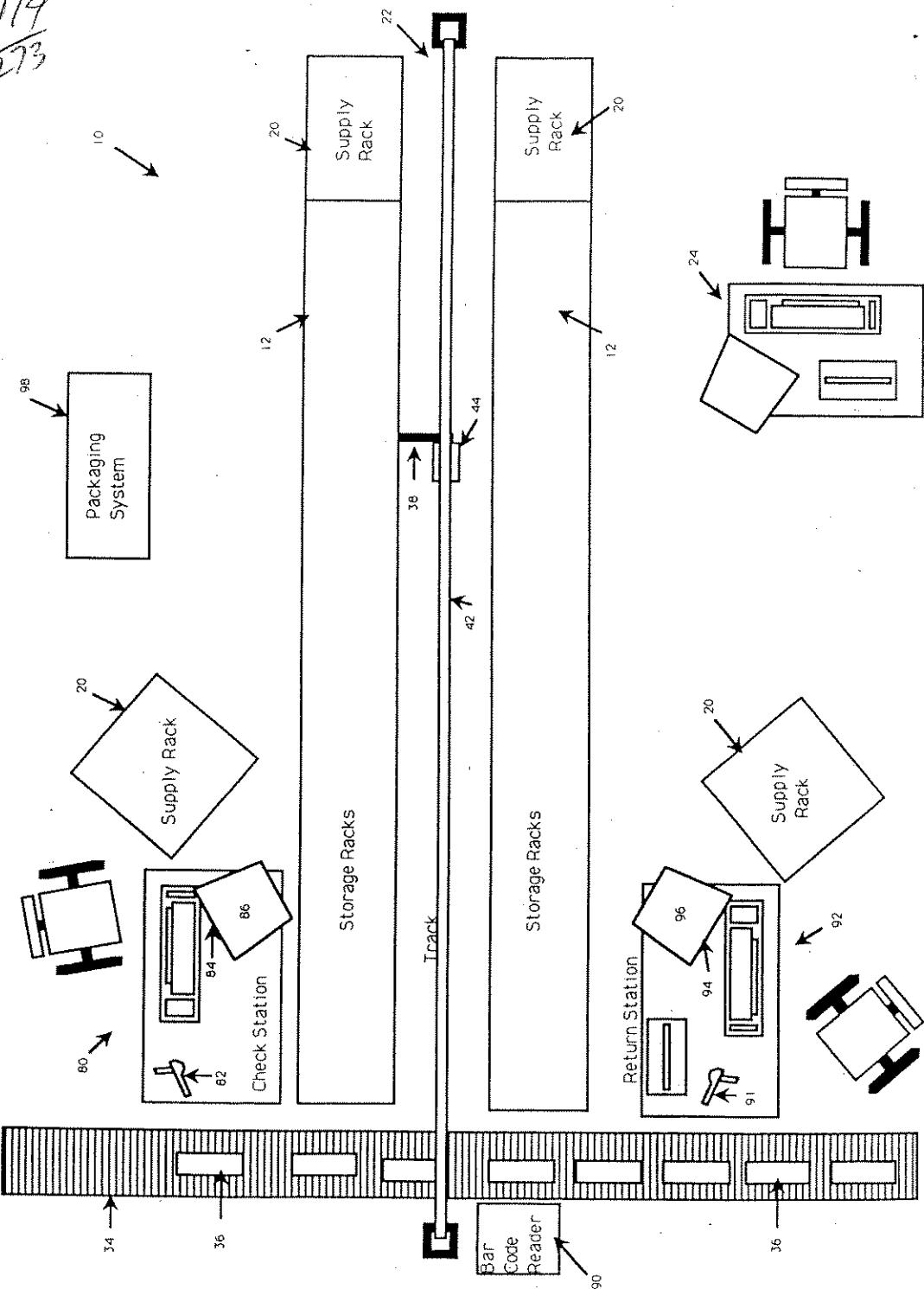


Figure 1

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452646

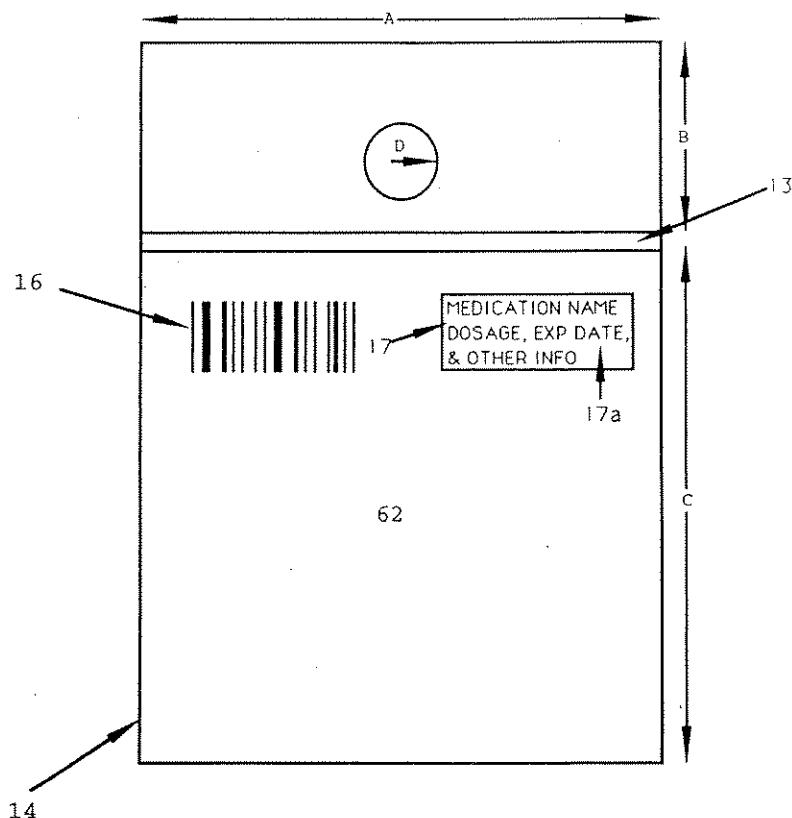


Figure 2

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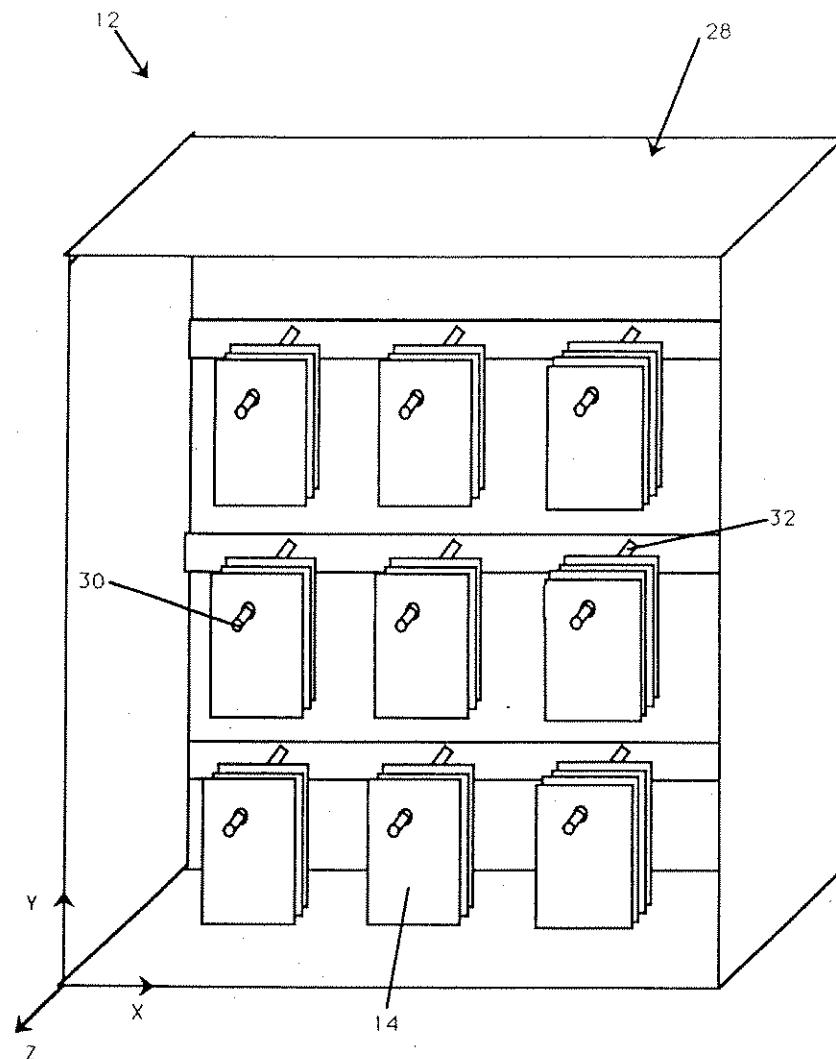


Figure 3

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13 / 452646

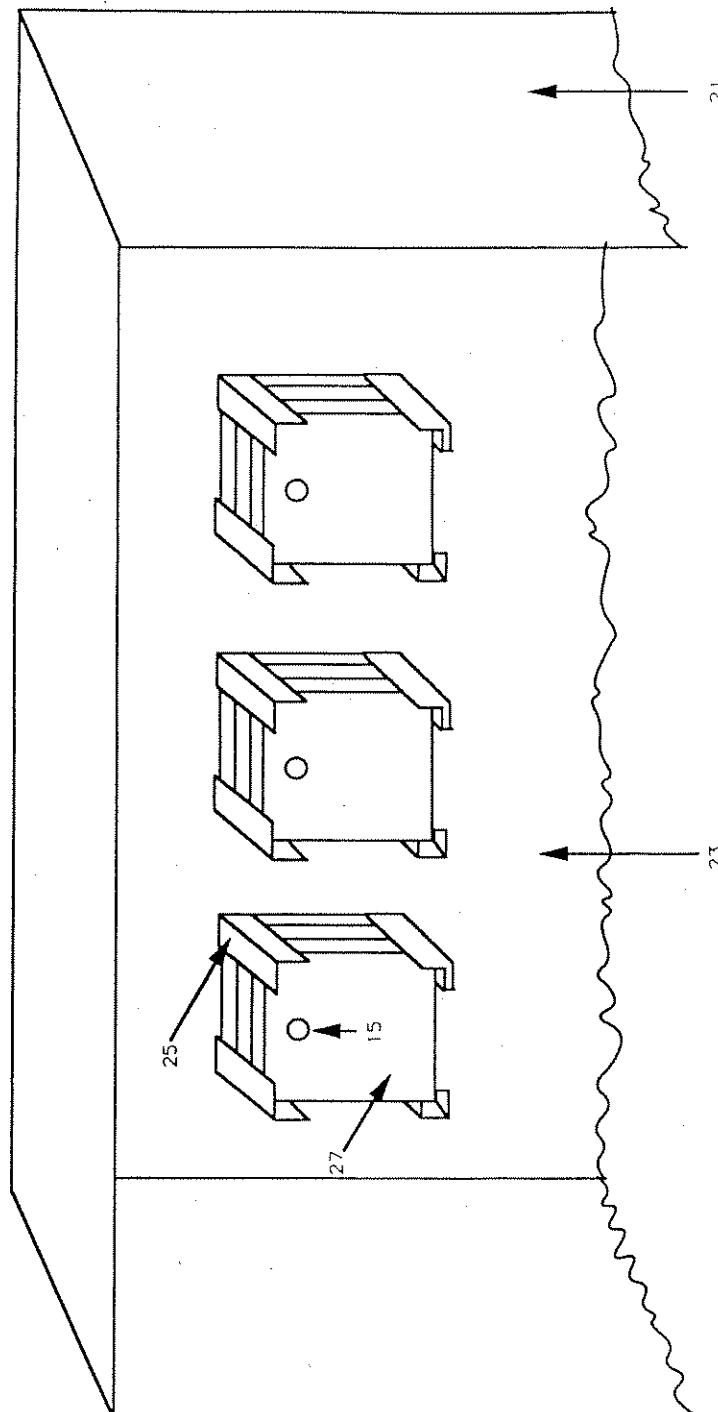


Figure 4

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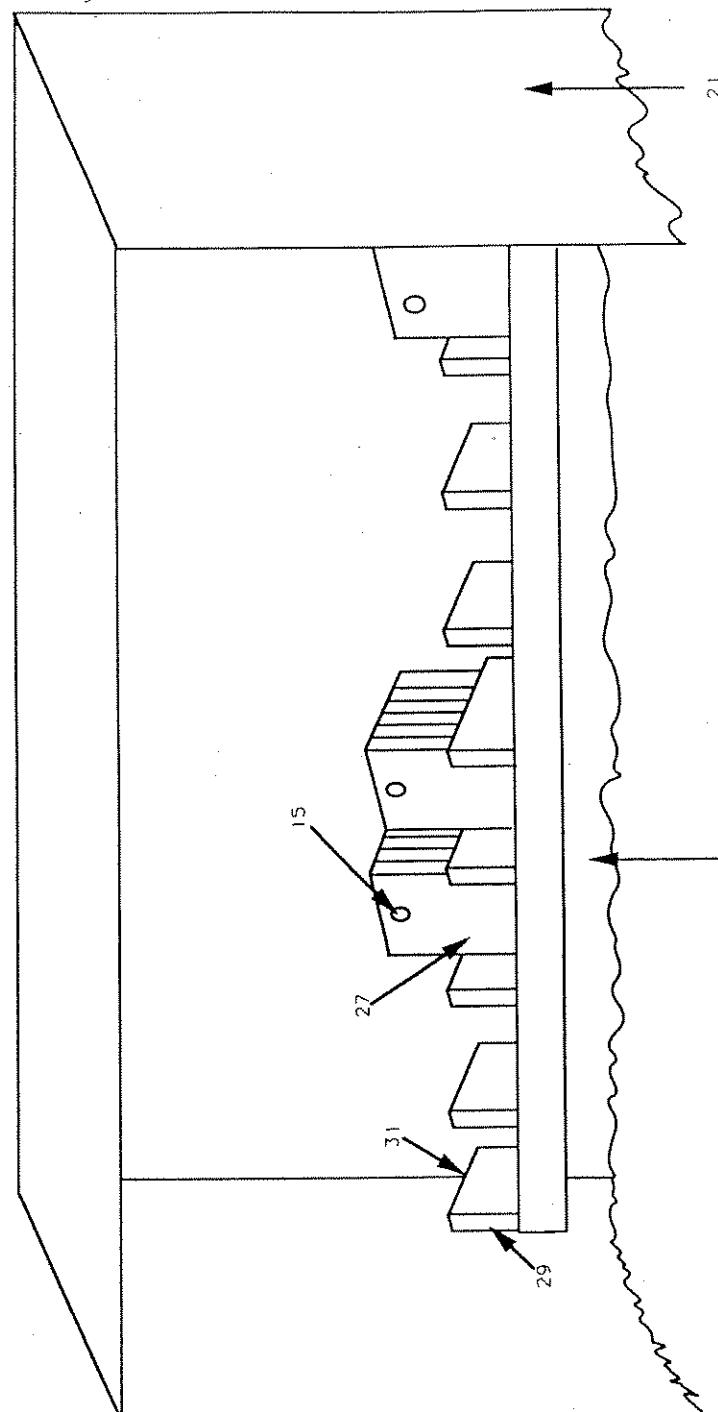


Figure 5

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AS ORIGINALLY FILED

11/452646

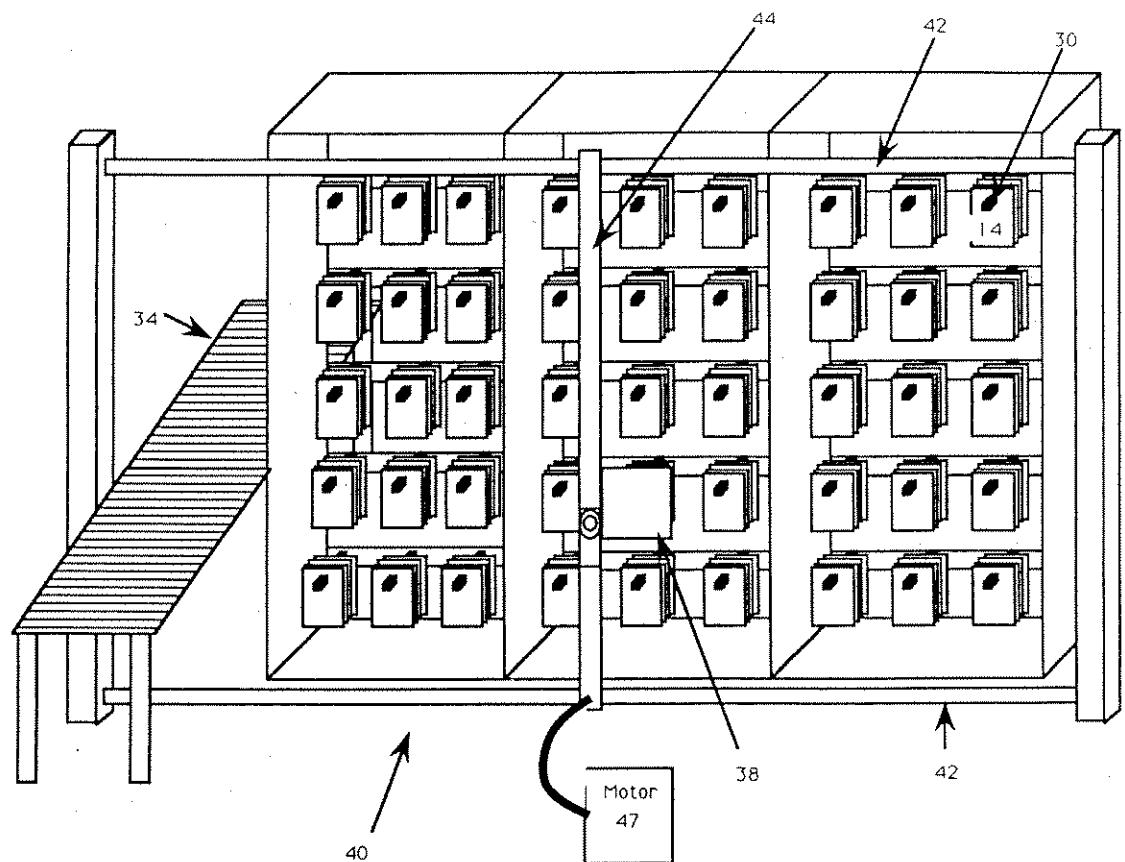


Figure 6

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08/15/2008
100-452646

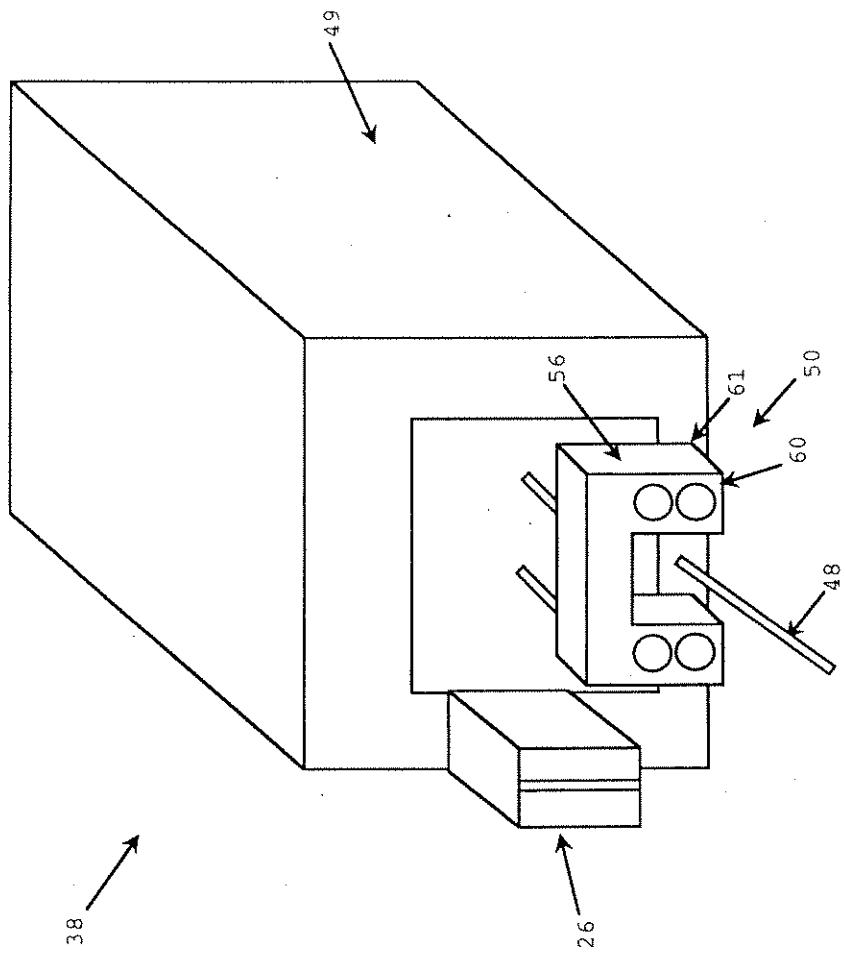
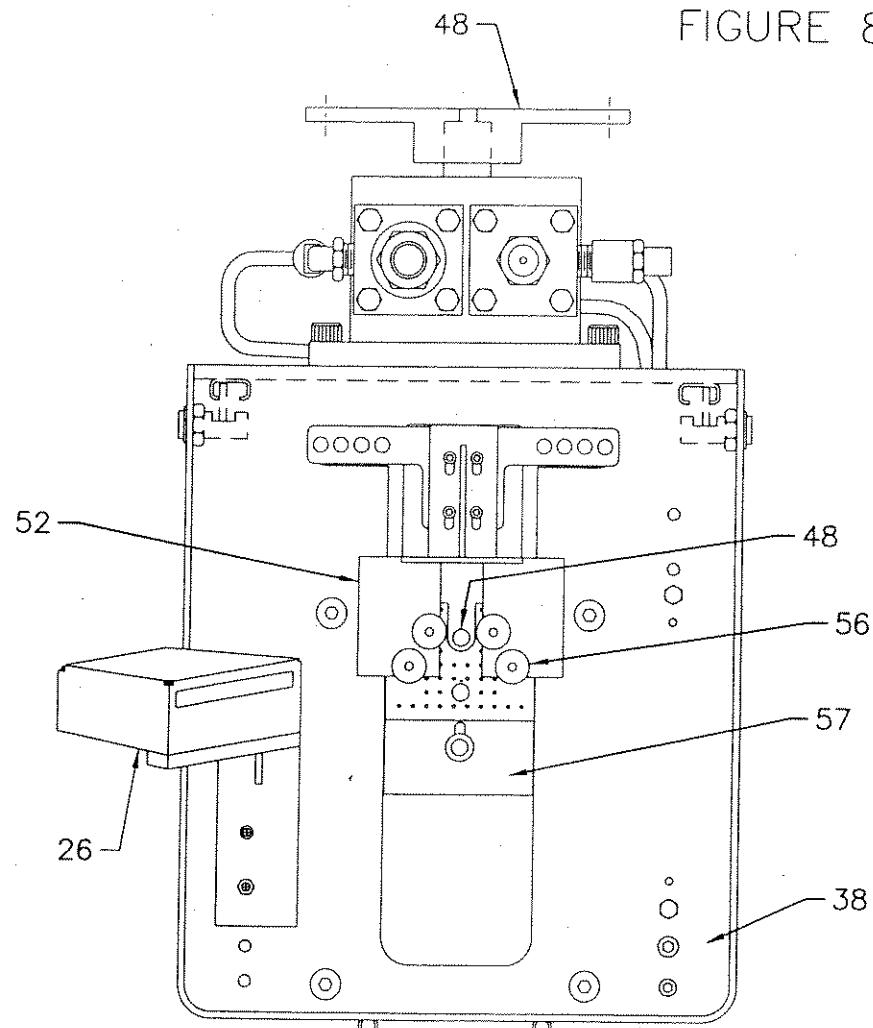


Figure 7

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AS ORIGINALLY FILED

10/452646

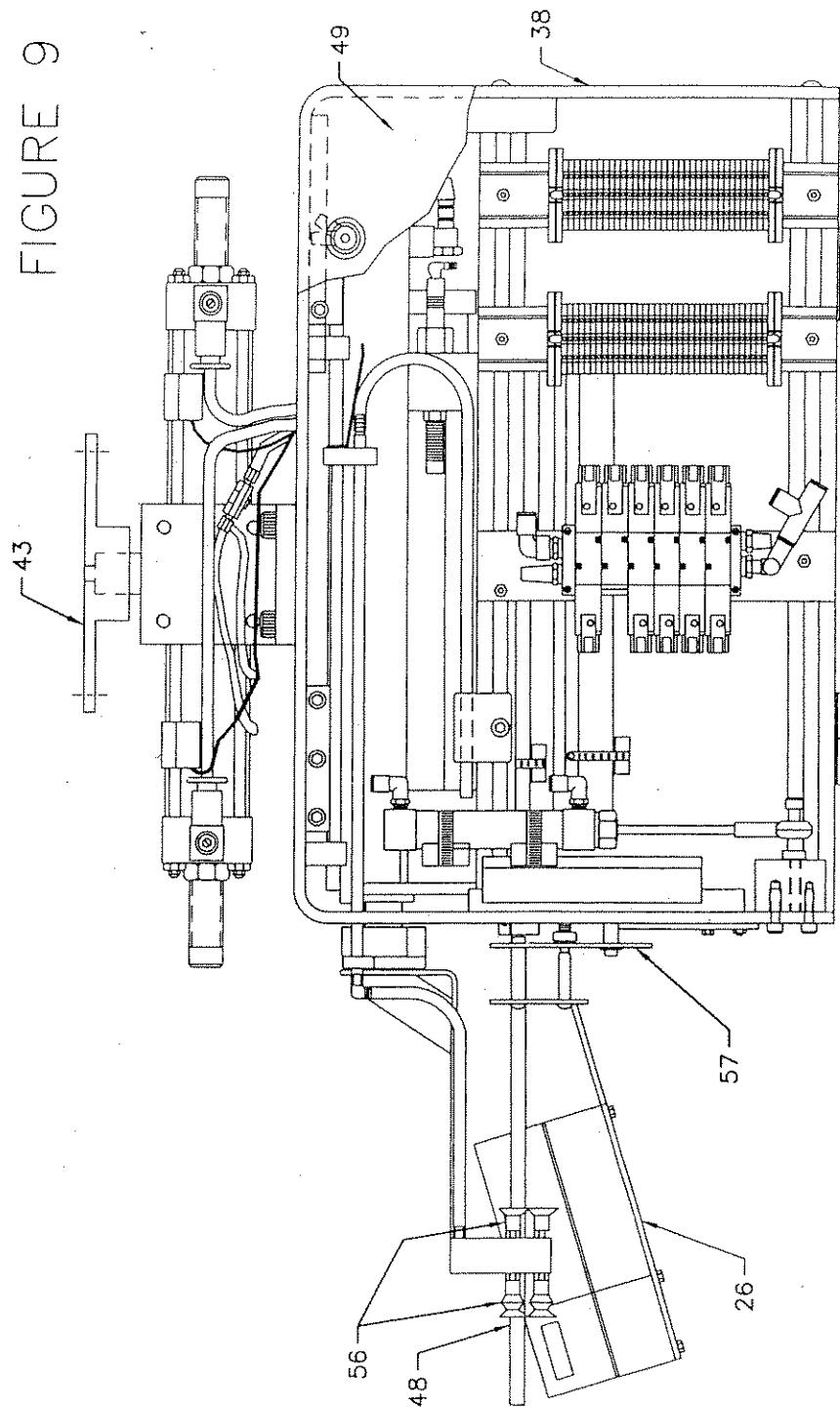
FIGURE 8



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AS ORIGINALLY FILED

08/15/2008
13 / 452646

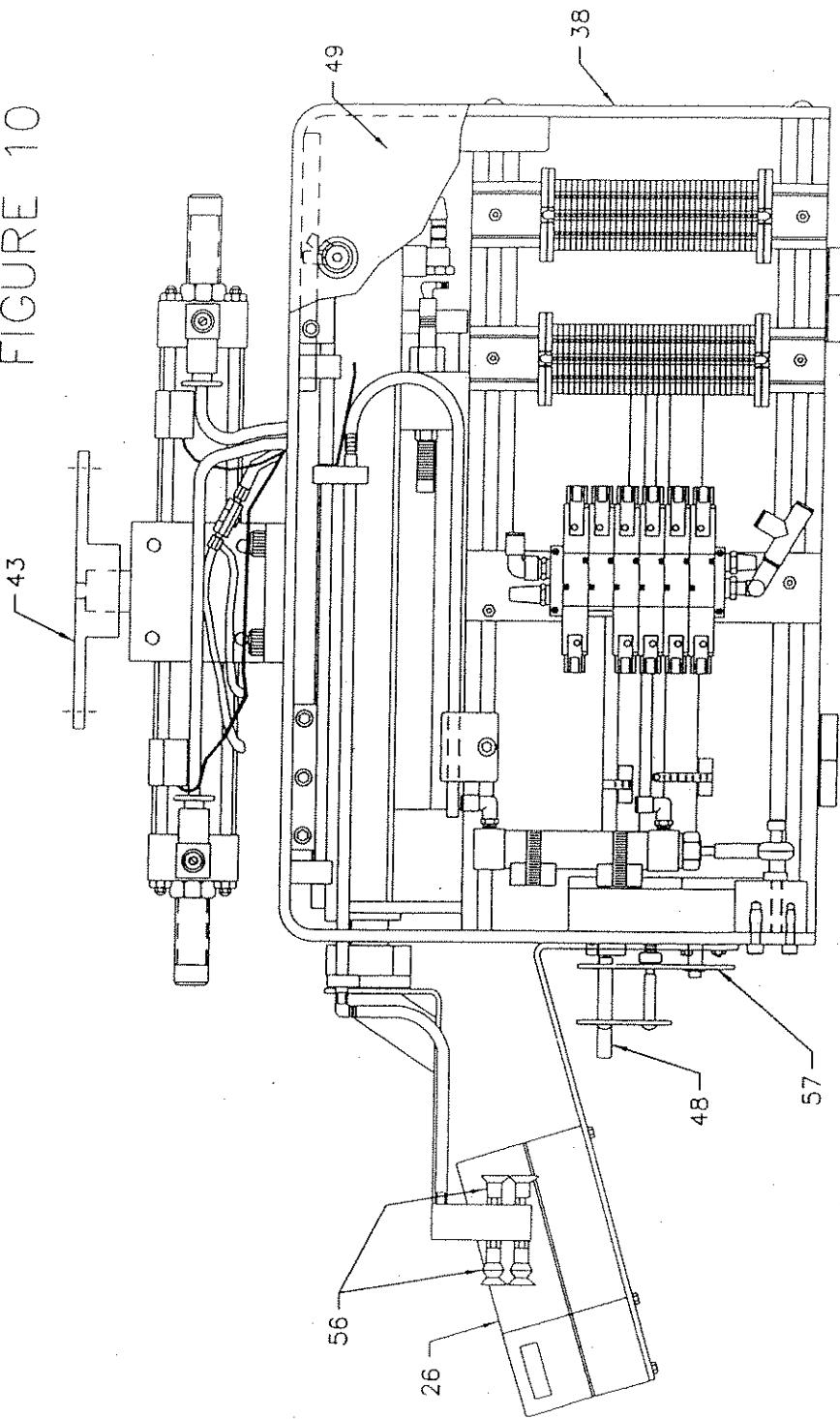
FIGURE 9



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AS ORIGINALLY FILED

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FIGURE 10



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AS ORIGINALLY FILED

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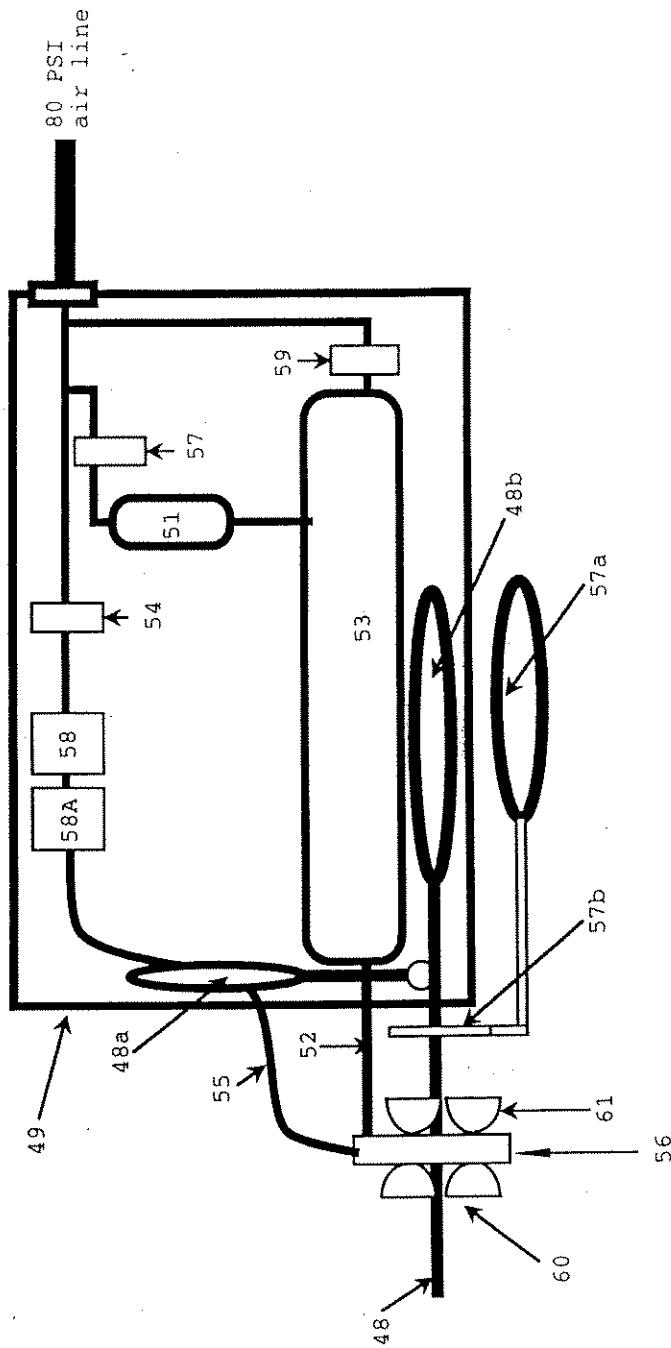


Figure 11

PRINT OF DRAWINGS
AS ORIGINALLY FILED

09 / 452646

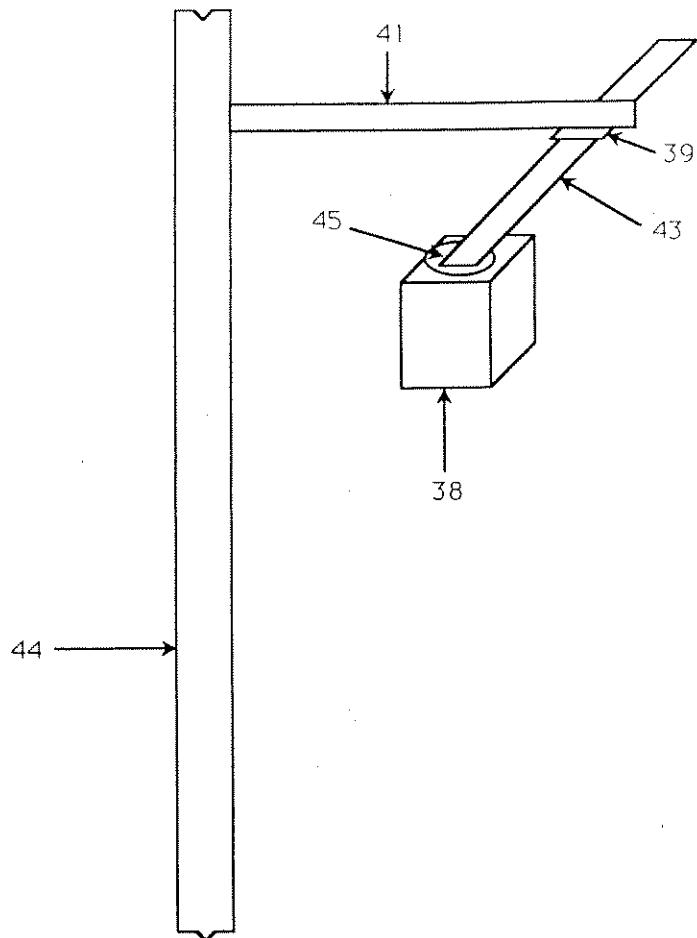


Figure 12

PRINT OF DRAWINGS
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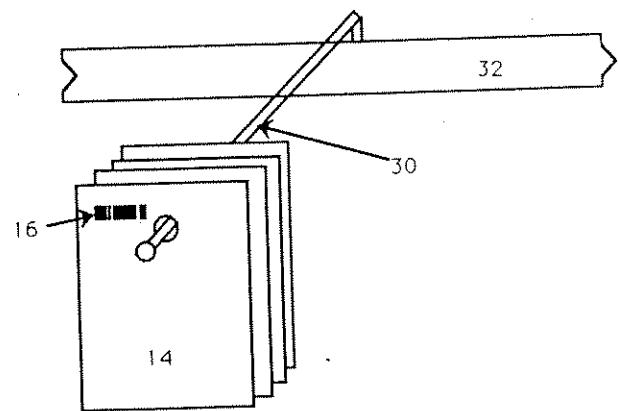


Figure 13

PRINT OF DRAWINGS
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08/452646

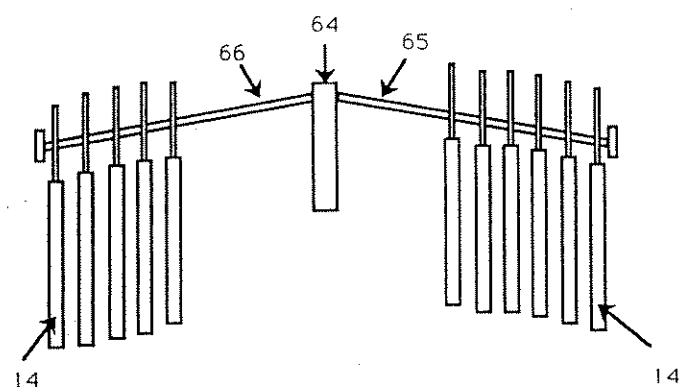


Figure 14

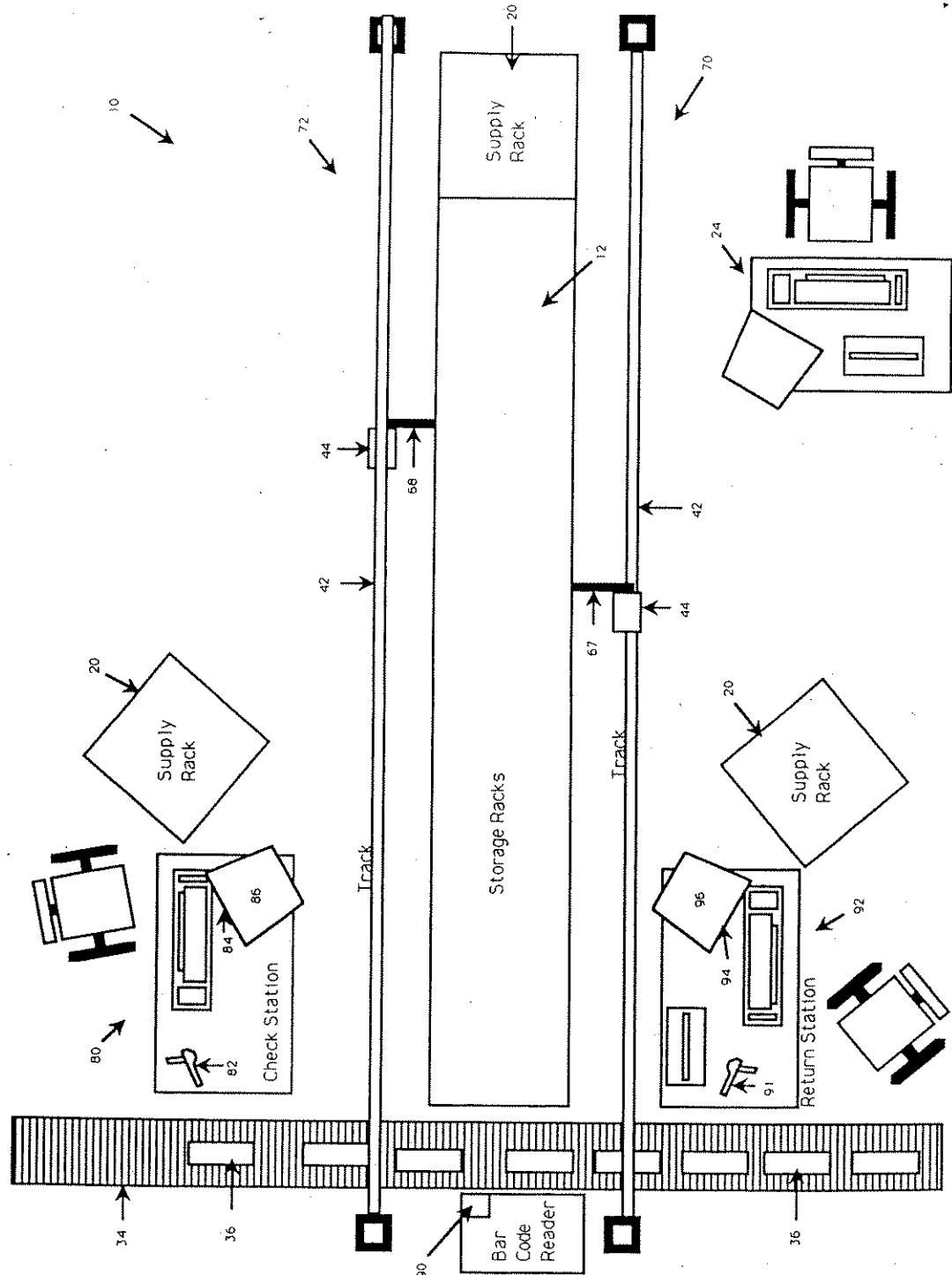
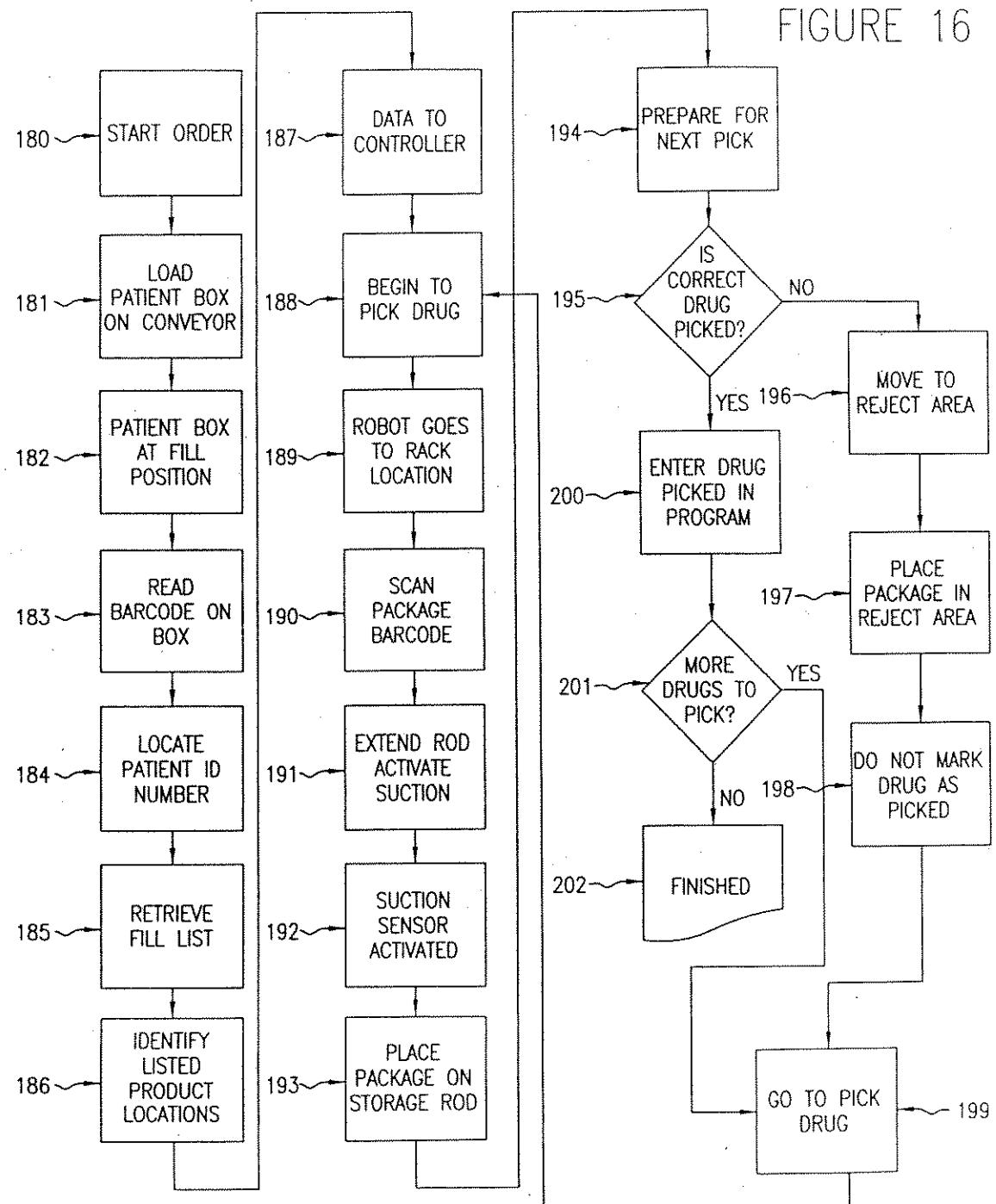
PRINT OF DRAWINGS
AS ORIGINALLY FILED08/15/2008
452646

Figure 15

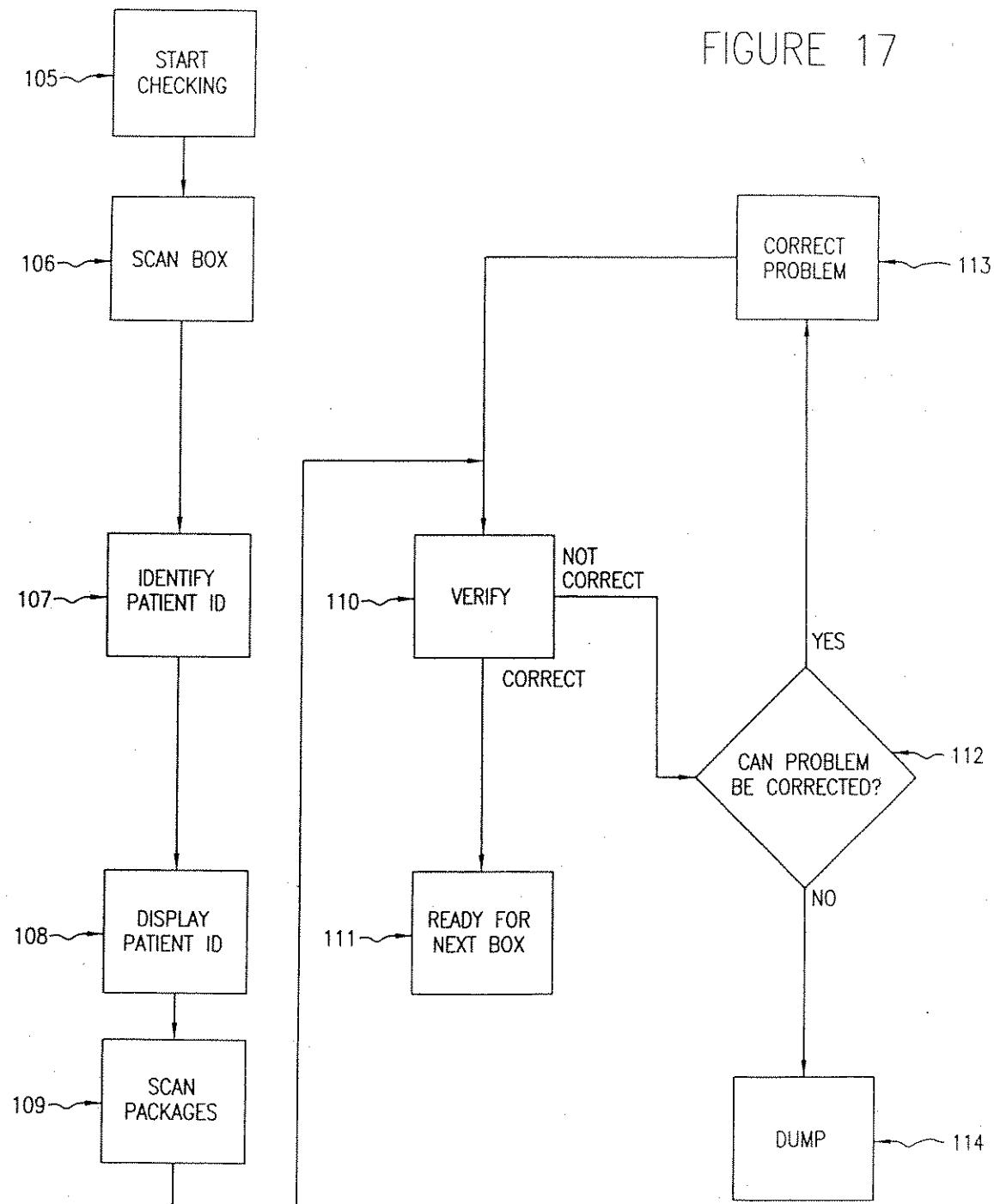
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13/452646



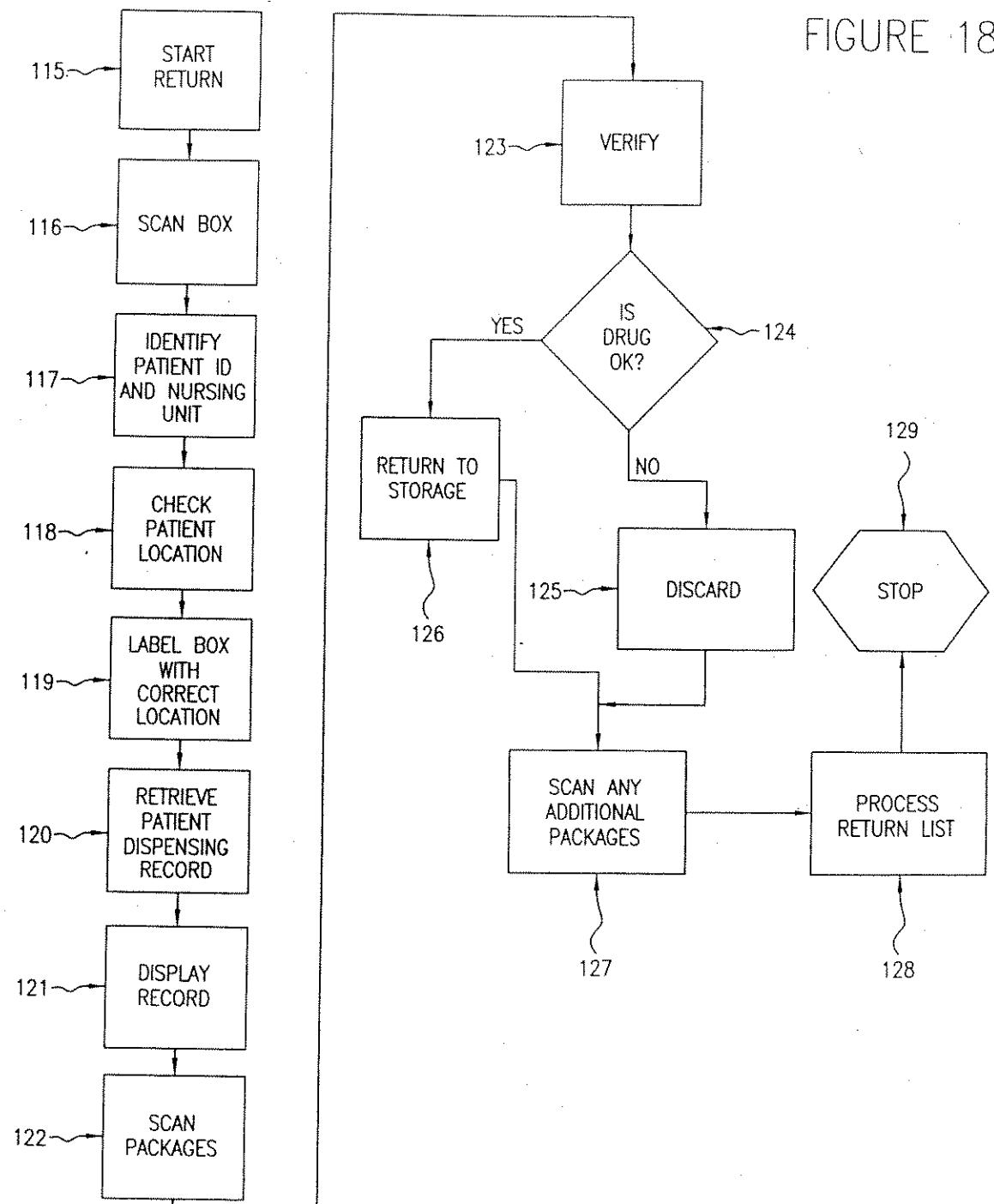
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M/452646



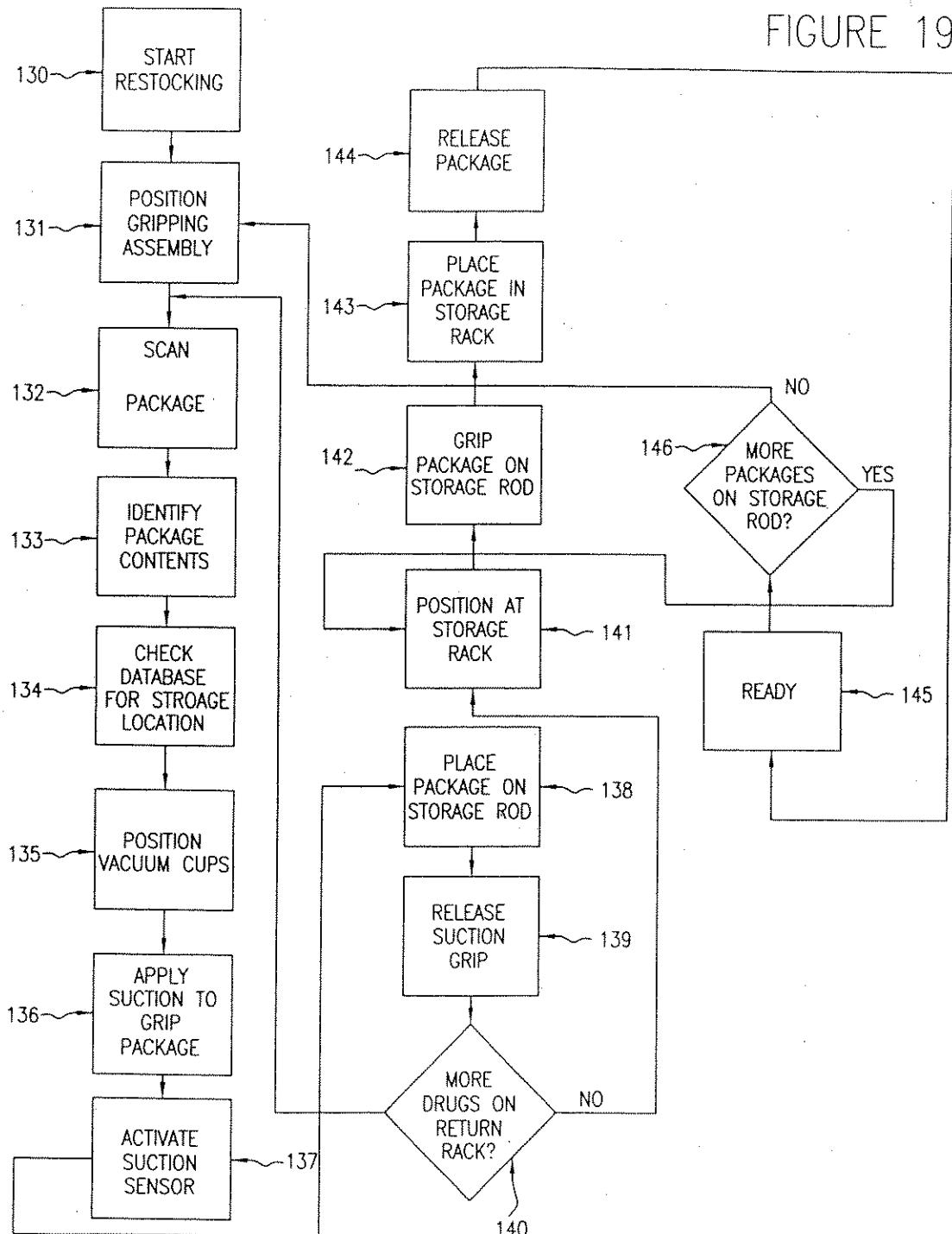
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09/452646



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M/452646



PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Examiner Frank E. Werner : AN AUTOMATED SYSTEM
In re application of 08/852,646 : FOR SELECTING PACKAGES
SEAN McDONALD et al. : FROM A STORAGE AREA
*fr
FDS
JW
7-12-95*
3107

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15219

May 25, 1995

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

The most pertinent prior art known to applicants has been cited in the parent application Serial No. 07/871,832, filed April 21, 1992. Form PTO 1449 listing that prior art is attached hereto. Pursuant to 37 C.F.R. 1.98(d) no copy of these references are submitted herewith.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

By Lynn J. Alstadt
Lynn J. Alstadt
Registration No. 29,362

Attorneys for Applicants

(412) 562-1632

SHEET 1 OF 2

LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				ATTY DOCKET NO	SERIAL NO		
				950441	08/452616		
				APPLICANT	Sean McDonald et al.		
				FILING DATE	GROUP		
				5-25-95	3107 #		
Part of paper							
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
<i>RW</i>	AA	4,896,024	1/90	Morello et al.	414	274	
<i>RW</i>	AB	4,789,295	12/88	Boucher, Jr., et al.	414	280	
<i>RW</i>	AC	5,129,777	7/92	Pohjonen et al.	414	280	
<i>RW</i>	AD	4,812,629	3/89	O'Neil et al.	414	274	
<i>RW</i>	AE	4,546,901	10/85	Butarazzi	414	280	
<i>RW</i>	AF	4,786,229	11/88	Henderson	414	273	
<i>RW</i>	AG	4,792,270	12/88	Yoshida	414	273	
<i>RW</i>	AH	4,669,047	5/87	Chucta	414	331	
<i>RW</i>	AI	4,820,109	4/89	Witt	414	282	
<i>RW</i>	AJ	4,651,863	3/87	Reuter et al.	414	280	
<i>RW</i>	AK	3,802,580	4/74	Castaldi	414	280	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
<i>RW</i>	AL	304	1/79	-PCT	414	273	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR						
	AS						
	AT						
EXAMINER <i>F. E. Wrenn</i>				DATE CONSIDERED <i>8/16</i>			
<small>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

SHEET 2 OF 2

FORM PTO-149 (Rev. 7-80)		U.S. Department of Commerce Patent and Trademark Office		ATTY DOCKET NO 950441	SERIAL NO 081452646		
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT Sean McDonald et al.			
				FILING DATE 5-25-95	GROUP 3107		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
<i>RW</i>	AA	3,986,612	10/76	Katum et al.	209	111.7	
<i>RW</i>	AB	4,678,390	7/87	Bonneton et al.	414	282	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
<i>RW</i>	AL	2 596 299	10/87	French	—	—	<input checked="" type="checkbox"/>
<i>RW</i>	AM	FR85/00232	8/84	PCT	—	—	<input checked="" type="checkbox"/>
	AN						
	AO						
	AP						
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR						
	AS						
	AT						
EXAMINER <i>F.E. Wevaev</i>				DATE CONSIDERED 8/95			
<small>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

414-273 AU 314 47901

EP 0000304
JAN 1979

HOTC-★ Q35 A2971B/02 ★EP ----304
Sorting machine for e.g. small hardware kits - has reader delivering
signals to logic control circuits which route items between transfer
and receiving rails

HOTCHKISS-BRANDT 05.07.77-FR-020658
P43 (10.01.79) B07c-03/08 B65g-47/61
D/S: DT, GB, SW.

The sorting machine has a storage rail which receives objects from work stations, suspension hooks being driven by a transfer device. A gripper supports each object for attachment to a hook, an unhooking device disengaging each gripper from its hook so that the objects can be attached to respective receiving rails.

The hooks and receiving rails are pref. mounted at different levels, a guide element maintaining the grippers in position during transfer. The machine pref., includes a reader which is responsive to index markings on the objects to control their transfer to the receiving rails.

The machine may be used to sort high turnover hardware items, partic. those consisting of several small components. It may also be adopted for use in an automatic document retrieval system.

16.6.78 as 400023 (25pp934).
ISR: DT1265044; DT1251236; FR2040483; FR1541475;
FR1334995; US3572546; US2998136.


**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
 Washington, D.C. 20231 Sⁿ08/452646

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
---------------	-------------	----------------------	---------------------

08/452,646 05/25/95 McDONALD

S 950441

WERNER, J. EXAMINER

F1M1/0821

ART UNIT PAPER NUMBER

3

 LYNN J ALSTADT
 BUCHANAN INGERSOLL
 56TH FLOOR
 600 GRANT STREET
 PITTSBURGH PA 15219

3107

DATE MAILED: 08/21/95

 This is a communication from the examiner in charge of your application.
 COMMISSIONER OF PATENTS AND TRADEMARKS

 This application has been examined Responsive to communication filed on _____ This action is made final.

 A shortened statutory period for response to this action is set to expire 3 month(s), 0 days from the date of this letter.
 Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133
Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. 3. <input checked="" type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474.	2. <input checked="" type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152. 6. <input type="checkbox"/>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Part II SUMMARY OF ACTION

1. Claims 24-35 are pending in the application.
 Of the above, claims _____ are withdrawn from consideration.
2. Claims 1 - 23 and 36 have been cancelled.
3. Claims _____ are allowed.
4. Claims 24-35 are rejected.
5. Claims _____ are objected to.
6. Claims _____ are subject to restriction or election requirement.
7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. Formal drawings are required in response to this Office action.
9. The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
11. The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).
12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. Other

EXAMINER'S ACTION

Serial Number: 08/452,646

Page 2

Art Unit: 3107

-Part III-

1. The fee calculation sheet and file wrapper indicates 12 claims (apparently claims 24-35) are present in the application. An apparent preamendment cancelling claims 1-23 and 36 (which were prosecuted in parent application SN 08/295495) has been misplaced. If the above is correct, Applicants cooperation in ratifying the cancellation of claims 1-23 and 36 would be appreciated.

2. Claims 24-35 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 24, it is not understood how the packages" (line 1) relate to the "medicine packages" (lines 4 and 5, etc.); further, no antecedent basis exists for "the location" (lines 14 and 15); lastly, an improper inference is created that the supply means supplies the rod when in point of disclosure, the rods are supplied from the supplying means by means of the picking means. Re claim 27, no antecedent basis exists for "tooling" (line 4). Re claim 35, no antecedent basis exists for "the back rod supports".

3. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section

Serial Number: 08/452,646

Page 3

Art Unit: 3107

102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

5. Claims 24, 25 and 35 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of the European Patent (, 304).

Morello et al disclose storage areas 40, automated picking means 20, 62, etc. on tracks 98 (99), supplying means 22 and computer means 26 to assign the package to X-Y coordinates (column 11, lines 11-17) and to control the picking means, but do not disclose support rods which is disclosed by the European Patent (, 304) (15, etc.) and in view of the same, it would have been obvious to have substituted holding means as taught by the European Patent (, 304) as this would have been the substitution

Serial Number: 08/452,646

Page 4

Art Unit: 3107

of equivalent holding means productive of no unexpected result. The handling of conventional medicine packages (as claimed) would have been obvious to one skilled in the art. Re claim 35, it would have been obvious to have conventionally formed the rods and gripper (as claimed) depending on the intended application.

6. Claims 26 to 29 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of the European Patent (, 304) as applied to claims 24, 25 and 35 above, and further in view of Buttarazzi.

Buttarazzi (42, 21, 88, etc.) teaches and renders obvious the alternate use of containers (filled by picking means) placed on a conveyor. The use of conventional plural containers (as claimed) would have been obvious. Re claims 28 and 29, the use of conventional identifying means (such as a bar code in claim 29) would have been obvious.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F.E. Werner whose telephone number is (703) 308-1140. The examiner can normally be reached on Tuesday-Friday from 6:30 AM to 5:00 PM.

Serial Number: 08/452,646

Page 5

Art Unit: 3107

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huppert, can be reached on (703) 308-1107. The fax phone number for this Group is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1113.

Summary:

Claims 24-35 are rejected.

Rejection-SSP 3 mos.

Werner/mm
August 08, 1995

Recd 08/16/95
FRANK E. WERNER
PRIMARY EXAMINER 8/9/95
GROUP 3100

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

PTO Draftpersons review all originally filed drawings regardless of whether they are designated as formal or informal. Additionally, patent Examiners will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review to the Drawing Review Branch, 703-305-8404.

<p>The drawings filed (insert date) <u>5/25/95</u>, are</p> <p><input checked="" type="checkbox"/> A. not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.</p> <p><input checked="" type="checkbox"/> B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.</p>		<p><input type="checkbox"/> View and enlarged view not labeled separately or properly. Fig(s) _____</p> <p><input type="checkbox"/> Sectional views. 37 CFR 1.84(h) 3</p> <p><input type="checkbox"/> Hatching not indicated for sectional portions of an object. Fig(s) _____</p> <p><input type="checkbox"/> Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes. Fig(s) _____</p>
<p>1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:</p> <p>Black ink. Color.</p> <p><input type="checkbox"/> Not black solid lines. Fig(s) _____</p> <p><input type="checkbox"/> Color drawings are not acceptable until petition is granted. Fig(s) _____</p>		<p>8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)</p> <p><input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____</p>
<p>2. PHOTOGRAPHS. 37 CFR 1.84(b)</p> <p>Photographs are not acceptable until petition is granted. Fig(s) _____</p> <p>Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____</p> <p>Poor quality (half-tone). Fig(s) _____</p>		<p>9. SCALE. 37 CFR 1.84(k)</p> <p><input type="checkbox"/> Scale not large enough to show mechanism with crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____</p> <p><input type="checkbox"/> Indication such as "actual size" or scale 1/2" not permitted. Fig(s) _____</p>
<p>3. GRAPHIC FORMS. 37 CFR 1.84(d)</p> <p>Chemical or mathematical formula not labeled as separate figure. Fig(s) _____</p> <p>Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) _____</p> <p>Individual waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____</p>		<p>10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)</p> <p><input type="checkbox"/> Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (except for color drawings). Fig(s) <u>10</u></p>
<p>4. TYPE OF PAPER. 37 CFR 1.84(c)</p> <p>Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) _____</p> <p>Erasures, alterations, overwritings, interlineations, cracks, creases, and folds copy machine marks not accepted. Fig(s) _____</p> <p>Mylar, velum paper is not acceptable (too thin). Fig(s) _____</p>		<p>11. SHADING. 37 CFR 1.84(m)</p> <p><input checked="" type="checkbox"/> Solid black shading areas not permitted. Fig(s) <u>11</u></p> <p><input type="checkbox"/> Shade lines, pale, rough and blurred. Fig(s) _____</p>
<p>5. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:</p> <p>21.6 cm. by 35.6 cm. (8 1/2 by 14 inches) 21.6 cm. by 33.1 cm. (8 1/2 by 13 inches) 21.6 cm. by 27.9 cm. (8 1/2 by 11 inches) 21.0 cm. by 29.7 cm. (DIN size A4)</p> <p>All drawing sheets not the same size. Sheet(s) _____</p> <p>Drawing sheet not an acceptable size. Sheet(s) _____</p>		<p>12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)</p> <p><input type="checkbox"/> Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1). Fig(s) _____</p> <p><input type="checkbox"/> Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1). Fig(s) _____</p> <p><input type="checkbox"/> English alphabet not used. 37 CFR 1.84(p)(2). Fig(s) _____</p> <p><input type="checkbox"/> Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3). Fig(s) <u>12</u></p>
<p>6. MARGINS. 37 CFR 1.84(g): Acceptable margins:</p> <p>Paper size 21.6 cm. X 35.6 cm. 21.6 cm. X 33.1 cm. 21.6 cm. X 27.9 cm. 21.0 cm. X 29.7 cm. (8 1/2 X 14 inches) (8 1/2 X 13 inches) (8 1/2 X 11 inches) (DIN Size A4) T .51 cm. (2") 2.5 cm. (1") 2.5 cm. (1") 2.5cm. L .64 cm. (1/4") .64 cm. (1/4") .64 cm. (1/4") 2.5 cm. R .64 cm. (1/4") .64 cm. (1/4") .64 cm. (1/4") 1.5 cm. B .64 cm. (1/4") .64 cm. (1/4") .64 cm. (1/4") 1.0 cm.</p>		<p>13. LEAD LINES. 37 CFR 1.84(q)</p> <p><input type="checkbox"/> Lead lines cross each other. Fig(s) _____</p> <p><input type="checkbox"/> Lead lines missing. Fig(s) _____</p>
<p>7. VIEWS. 37 CFR 1.84(h)</p> <p>REMINDER: Specification may require revision to correspond to drawing changes.</p> <p><input type="checkbox"/> All views not grouped together. Fig(s) _____</p> <p><input type="checkbox"/> Views connected by projection lines or lead lines. Fig(s) _____</p> <p>Partial views. 37 CFR 1.84(h) 2</p>		<p>14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)</p> <p><input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____</p>
		<p>15. NUMBER OF VIEWS. 37 CFR 1.84(u)</p> <p><input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____</p> <p><input type="checkbox"/> View numbers not preceded by the abbreviation Fig. Fig(s) _____</p>
		<p>16. CORRECTIONS. 37 CFR 1.84(w)</p> <p><input type="checkbox"/> Corrections not made from prior PTO-948. Fig(s) _____</p>
		<p>17. DESIGN DRAWING. 37 CFR 1.152</p> <p><input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____</p> <p><input type="checkbox"/> Solid black shading not used for color contrast. Fig(s) _____</p>
<p>COMMENTS:</p> <p><i>1-3(1) 7,11,15-19</i></p> <p>Margins do not conform to chart above. Sheet(s) _____</p> <p><input checked="" type="checkbox"/> Top (T) <input checked="" type="checkbox"/> Left (L) <input type="checkbox"/> Right (R) <input type="checkbox"/> Bottom (B)</p>		

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER	3			
NOTICE OF REFERENCES CITED				APPLICANT(S)						
				Sean C., McDonald et al						
U.S. PATENT DOCUMENTS										
*	DOCUMENT NO.			DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE		
A										
B										
C										
D										
E										
F										
G										
H										
I										
J										
K										
FOREIGN PATENT DOCUMENTS										
*	DOCUMENT NO.			DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L			304	1-1979	European	—	414	273		
M										
N										
O										
P										
Q										
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)										
R										
S										
T										
U										
EXAMINER			DATE							
F.E. Werner			8/95							
* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)										



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of
MCDONALD, S.
Application No. 08/452,646
Filing Date 05/25/95

Art Group _____
August 1, 1995

Cip 310 7

Werner #4
Chayfa
V.W
G-2-95

Short Title: AN AUTOMATED SYSTEM FOR SELECTING PACKAGES FROM A STORAGE

CHANGE OF ADDRESS

Hon. Commissioner of Patents and Trademarks
Washington, D. C.

Please note that effective September 1, 1995, the attorney's address will be changed from 600 Grant Street, Pittsburgh, Pa. to:

Buchanan Ingersoll P.C.

* *
* NEW ADDRESS *
* *

One Oxford Centre
20th Floor
301 Grant Street
Pittsburgh, Pa.

15219-1410

Please address all correspondence to us at the new address. The telephone numbers for our attorney(s) remains unchanged, and the general telephone number is 412 562-8800 if you need any further information.

Respectfully submitted,

Buchanan Ingersoll
BUCHANAN INGERSOLL, P.C.

atty. docket 950441

move-usapp



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Grover Art Unit 3107

PATENT

Examiner F. Werner

In re application of

SEAN C. McDONALD et al.

Serial No. 08/452,676

Filed May 25, 1995

- AN AUTOMATED SYSTEM FOR SELECTING AND DELIVERING
- PACKAGES FROM A STORAGE AREA

5/11
12-19-95

3101

I hereby certify that this correspondence is being deposited with the United States Post Office at the exact address and in an envelope to a registered messenger service of Patents and Trademarks, Washington, D.C. 20591.
90

AMENDMENT

Pittsburgh, Pennsylvania 15219

November 21, 1995

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Siri

Please amend the claims as follows:

24. (Amended) A system for selecting and delivering medicine packages from a

holding means to fill orders comprising:

a) a holding means comprised of a frame having a plurality of support rods each support rod sized for holding a plurality of medicine packages, each rod associated with a given medicine and holding medicine packages with only the same medicine each support rod having a distinct X, Y coordinate location:

b) [means for supplying medicine packages to the support rods;
 c)] means for picking medicine packages from the support rods in accordance
 with instructions received from a computer, said picking means being able to access the holding
 means [and the supply means]; the picking means capable of holding a plurality of medicine
packages which have been picked from the holding means; and
c.[d]) a computer having a database containing an X, Y coordinate location [the
locations of] for all packages in the holding means, the computer able to receive orders for
packages and able to direct the means for picking packages.

25. (Amended) A system as described in claim 24 also comprising a supply
[wherein the] structure [including] having a plurality of [rod supports from which the rods
extend,] supply support rods which extend from said structure [with back rod supports] to form
an X, Y coordinate system, with each supply support rod and medicine package [therein] thereon
having a unique X and Y coordinate, said picking means disposed [adjacent] to have access to
said structure such that a given medicine package on an associated supply support rod can be
picked by the picking means to fill a patient's prescription; or a given medicine package in the
[supplying means] supply structure can be picked by the picking means to restock [the] an
associated rod in the holding means.

In claim 26, line 1, change "claim 25" to -- claim 24 --.

32. (Amended) A system as described in claim [26] 24 wherein the picking
 means includes at least one gripper that picks the medicine packages; and a tooling support
 structure having at least one column [to support] supporting the column such that the [tooling]

picking means moves along the column as the column moves along the row to pick a given medicine package hanging from a corresponding support rod, or restock a given medicine package on a corresponding support rod; and means for moving the column with respect to the row, said moving means controlled by the computer.

42 28. (Amended) A system as described in claim 27 wherein the [tooling] picking means is comprised of:

a housing;

means for storing a plurality of medicine packages attached to the housing; means for obtaining a medicine package, said obtaining means slidingly attached to the housing such that it can move in a Z direction, which is perpendicular to the X and Y directions, to pick a medicine package from a support [structure] rod when the housing is adjacent to and aligned with a support rod, and can move in the Z direction to place a picked package on the storing means; and

[wherein the] identifying means [is part of] attached to the at least one gripper such that it can identify a package to be picked by the obtaining means, each of said packages having an identity disposed on them which can be read by the identifying means.

43 29. (Amended) A system [as described in claim 29 wherein] for selecting and delivering packages from a holding means to fill orders comprising:

- a) holding means comprised of a frame having a plurality of support rods for holding packages each support rod having a distinct X, Y coordinate location and holding a plurality of packages, all of those packages on each support rod having similar contents;

b) picking means for picking packages from the support rods in accordance with instructions received from a computer, the picking means being able to access the holding means
and having

AB *Cop*

a housing;

means for storing packages attached to the housing;

[the obtaining means includes] means for producing a suction;
 a suction rod in fluid connection with the suction producing means, said suction rod slidingly attached with respect to the Y and Z directions to the housing and maintaining a suction therethrough when the suction producing means is activated[; a suction is connected to the suction rod through] by which a medicine package is picked with suction; and
 means for sensing when a package is properly positioned [on the suction head]

such that the package rod is then moved to the storing means and deposits the package thereon.

AB *635.* (Amended) A system as claimed in claim 24 wherein the support rods extend from [the] back rod supports within the frame in sets of two, with a first rod and a second rod on each set pointing essentially in a Z direction, which is perpendicular to the X and Y directions, but approximately 180° apart from each other[, and wherein the picking means includes a first gripper and a second gripper that picks the medicine packages; and a first and second tooling support structure, each tooling support structure having at least one column and at least one row to support the column, such that the first and the second tooling moves along the respective column and the respective column moves along the respective row of the first and second tooling

AB
support structure, respectively, to pick a given medicine package from a corresponding support rod, or restock a support rod with an associated medicine package].

REMARKS

✓ This is in response to the Office Action dated August 21, 1995. Applicants confirm that claims 1 thru 23 and 36 were cancelled when the application was filed.

The Section 112 Rejections

The Examiner rejected all pending claims under Section 112 citing specific problems with claims 24, 27 and 25. Claim 24, 27 and 35 have been amended to overcome the stated problems. Reconsideration of the claims as amended and withdrawal of the Section 112 rejections are, therefore, respectfully requested.

The Section 103 Rejections

The pending claims have been rejected under Section 103 as obvious from United States Patent No. 4,896,024 to Morello et al. in combination with European Patent Application 304 and Buttarazzi United States Patent No. 4,546,901. Applicants have amended claim 24 to require that each support rod be able to hold a plurality of packages and that the picking means be capable of holding a plurality of packages after those packages have been retrieved from the holding means.

Morello et al. discloses an apparatus for dispensing and accepting the return of reusable articles such as videotapes. The apparatus has a housing containing a plurality of stationary locations each location being capable of holding a single reusable article therein and having its own location code. A transfer assembly is utilized to remove individual articles from selected locations and return articles to selected locations. As shown in Figures 3, 7, 8 and 9 and described at column 9, line 50 thru column 10, line 37, the Morello system includes a picker assembly having a platen suitable for receiving one selected article. The platen contains two, generally parallel, spaced apart plates mounted to a base plate. The plates define the location into which the selected article is positioned. The teaching of Morello et al. is that the transfer assembly be sent to a specific location to select one directed article stored in that location. The article is removed from the location into the picker assembly. There the identification code of the article is read. The picker assembly then delivers the article to a pick-up location. The picker assembly can also receive individual articles which have been placed at the gate mechanism 22. As disclosed, the picker assembly and the gate mechanism can handle only a single article at any given point in time. Similarly each location can accommodate a single article at any given point in time. Storage of many articles at a single location as well as selecting multiple packages before delivery is not taught or suggested by Morello. The Examiner has recognized that Morello also does not teach or suggest the use of support rods to hold the videotape packages.

The Examiner argues that those skilled in the art would use the rods of the cited European patent in the Morello system. However, if such a combination were made one would have a system that stored single packages at distinct locations on rods. Yet, the amended claims

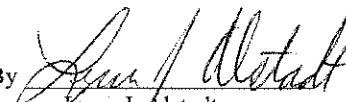
require a plurality of packages be held on each rod and also that the picking means be capable of holding a plurality of packages. This combination is not taught or suggested by the cited combination. Furthermore, these references do not teach or suggest storing similar packages of medicine on a single rod in an automated system. Since none of the other references teach or suggest the system of amended claim 24, the claimed system is patentable over the prior art. Claims 25 thru 29 depend directly or indirectly from claim 24 and, therefore, are also patentable.

Claim 30 has been rewritten in independent form. The Examiner did not cite any art against this claim. Hence, it is patentable over the prior art. Claims 31 thru 34 depend from patentable claim 30 and are, therefore, patentable.

Reconsideration and allowance of the claims as amended are respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

By 
Lynn J. Alstadt
Registration No. 29,362

Attorney for Applicants

(412) 562-1632



3107
#6
12-19-95

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE RECEIVED

DEC 14 1995

PATENT GROUP 310

Group Art Unit 3107

Examiner F. Werner

In re application of

SEAN C. McDONALD et al.

Serial No. 08/452,646

Filed May 25, 1995

: AN AUTOMATED SYSTEM FOR
SELECTING AND DELIVERING
PACKAGES FROM A STORAGE
AREA

3101

LETTER

Pittsburgh, Pennsylvania 15219

November 22, 1995

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

An Amendment was mailed to the Patent and Trademark Office on November 21, 1995, for the above-identified patent application. Unfortunately, the serial number listed in the identification of the application was incorrect. We are, therefore, enclosing a revised page bearing the correct Serial No. 08/452,646.

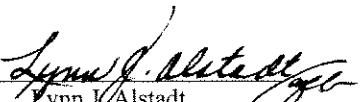
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on 11-22-95.

Judge Beyer
Buchanan Ingersoll

It is respectfully requested that this revised page be substituted for the page
bearing the incorrect Serial No. 08/452,656.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

By 
Lynn J. Alstadt
Registration No. 29,362

Attorney for Applicants

(412) 562-1632


**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

 Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

S n o 8 / 4 5 2 - 6

ATTORNEY DOCKET NO.

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	
08/452,646	05/25/95	MCDONALD	

y
08/452,646 05/25/95 MCDONALD

S 950441

EXAMINER

WERNER, F

ART UNIT

PAPER NUMBER

F1M1/0318
BUCHANAN INGERSOLL P.C.
ONE OXFORD CENTRE
20TH FLOOR
301 GRANT STREET
PITTSBURGH, PA. 15219-1410

3107

DATE MAILED:

03/18/96

7

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on Nov. 24, 1995 This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. <input type="checkbox"/> Notice of References Cited by Examiner, PTO-892.	2. <input type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948.
3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449.	4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152.
5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474.	6. <input type="checkbox"/>

Part II SUMMARY OF ACTION

1. Claims 24-35 are pending in the application.
Of the above, claims _____ are withdrawn from consideration.
2. Claims 1-23 and 36 have been cancelled.
3. Claims 30-34 are allowed.
4. Claims 24, A 35
^{26-29 and} are rejected.
5. Claim 25 is objected to.
6. Claims _____ are subject to restriction or election requirement.
7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. Formal drawings are required in response to this Office action.
9. The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are acceptable; not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been approved by the examiner; disapproved by the examiner (see explanation).
11. The proposed drawing correction, filed _____, has been approved; disapproved (see explanation).
12. Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no. _____; filed on _____.
13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. Other

EXAMINER'S ACTION

Serial Number: 08/452,646
Art Unit: 3107

Page 2

-Part III-

1. Claims 24-35 are rejected under 35 U.S.C. § 103 as being unpatentable over .

Re at least base claim 24, it is not clear whether the picking means holds the packages at the same time or at a different time.

2. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

4. Claims 24, and 35 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of the European Patent, (,304).

Morello et al disclose storage areas 40, automated picking

Serial Number: 08/452,646
Art Unit: 3107

Page 3

means 20, 63, etc. on tracks 98 (99), supplying means 22 and computer means 26 to assign the package to X-Y coordinates (column 11, lines 11-17) and to control the picking means, but do not disclose support rods which is disclosed by the European Patent (,304) (15, etc.) and in view of the same, it would have been obvious to have substituted holding means as taught by the European Patent (,304) as this would have been the substitution of equivalent holding means productive of no unexpected result. When storing articles on a rod, it would have been obvious to have collected a plurality of articles by the picking means as taught by the European Patent (,304) (15, 20, 21, etc.). The handling of conventional medicine packages (as claimed) would have been obvious to one skilled in the art. Re claim 35, it would have been obvious to have conventionally formed the rods and gripper (as claimed) depending on the intended application.

Claims 26 to 29 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of the European Patent (,304) as applied to claims 24, and 35 above, and further in view of Buttarazzi.

Buttarazzi (42, 21, 88, etc.) teaches and renders obvious the alternate use of containers (filled by picking means) placed on a conveyor. The use of conventional plural containers (as claimed) would have been obvious. Re claims 28 and 29, the use of conventional identifying means (such as a bar code in claim 29) would have been obvious.

Serial Number: 08/452,646
Art Unit: 3107

Page 4

5. Claim 25 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. Applicant's arguments filed Nov. 24, 1995 have been fully considered but they are not deemed to be persuasive.

Re applicants' "Remarks" on pages 6 and 7, please note the above rejections.

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Serial Number: 08/452,646
Art Unit: 3107

Page 5

8. Any inquiry concerning this communication should be directed to F. E. Werner at telephone number (703) 308-1140.

Summary:

Claims 24, 26-29 and 35 are rejected.

Claims 30-34 are allowed.

Claims 25 is objected to

Final Rejection-SSP 3mos.

Werner/oc
March 04, 1996


FRANK E. WERNER
PRIMARY EXAMINER 3107
GROUP 3100



3107

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107 : PATENT
Examiner F. Werner :
In re application of : AN AUTOMATED SYSTEM FOR
SEAN C. McDONALD et al. : SELECTING AND DELIVERING
Serial No. 08/452,646 : PACKAGES FROM A STORAGE
Filed May 25, 1995 : AREA

I hereby certify that this correspondence is being
mailed with the United States Postal Service as first
class mail in an envelope addressed to: Commissioner
of Patents and Trademarks, Washington, D.C. 20231,
on

May 20, 1996
Buchanan Ingersoll
Attn: M. L. Weller

A M E N D M E N T

Pittsburgh, Pennsylvania 15219

May 20, 1996

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

Please amend the claims as follows:

14. (Twice Amended) A system for selecting and delivering medicine packages from a holding means to fill orders comprising:
a) a holding means comprised of a frame having a plurality of support rods each support rod sized for holding a plurality of medicine packages, each rod associated with a given medicine and holding medicine packages with only the same medicine each support rod having a distinct X, Y coordinate location;

40

b) means for picking medicine packages from the support rods in accordance with instructions received from a computer, said picking means being able to access the holding means; the picking means capable of holding a plurality of medicine packages which have been picked from the holding means; [and]

c) a computer having a database containing an X, Y coordinate location for all packages in the holding means, the computer able to receive orders for packages and able to direct the means for picking packages; and

d) a supply structure having a plurality of supply support rods which extend from said structure to form an X, Y coordinate system, with each supply support rod and medicine package thereon having a unique X and Y coordinate, said picking means disposed to have access to said structure such that a given medicine package on an associated supply support rod can be picked by the picking means to fill a patient's prescription, or a given medicine package in the supply structure can be picked by the picking means to restock an associated rod in the holding means.

Cancel claim 25.

REMARKS

This is in response to the Office Action dated March 18, 1996. By this Amendment applicants have amended claim 24 to include the subject matter of claim 25 and cancelled claim 25.

In the Office Action the Examiner allowed claims 30 thru 34 and said claim 25 would be allowable if rewritten in independent form. The present amendment does this. Therefore, claim 24 as amended is allowable. Claims 26, 27, 28, 29 and 35 depend directly or indirectly from claim 24. Consequently, these claims are allowable.

Reconsideration and allowance of the claims as amended are respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

By 
Lynn J. Alstadt
Registration No. 29,362

Attorney for Applicants

(412) 562-1632



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office Sn 08/452646
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
		MCDONALD	9 950441

01N1/0606

WERNER, F EXAMINER

ART UNIT	PAPER NUMBER
3107	9

06/06/96

DATE MAILED:

NOTICE OF ALLOWABILITY

PART I.

- This communication is responsive to the amendment of May 22, 1996.
- All the claims being allowable, PROSECUTION ON THE MERITS IS ~~FOR REMAINS~~ CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
- The allowed claims are 24 and 26-35.
- The drawings filed on _____ are acceptable.
- Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [...] been received. [...] not been received. [...] been filed in parent application Serial No. _____, filed on _____.
- Note the attached Examiner's Amendment.
- Note the attached Examiner Interview Summary Record, PTO-413.
- Note the attached Examiner's Statement of Reasons for Allowance.
- Note the attached NOTICE OF REFERENCES CITED, PTO-892.
- Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

II. ~~The claims have been allowed because the prior art does not disclose or teach the application thereof to arrive at the claimed combination of the claimed holding means, picking means, computer and supply structure (claim 24) and holding means, picking means, and supply means (claims 26-35). These views operate in accordance with the disclosure.~~

PART II. Picking means, computer and supply structure (claim 24) and holding means, supply means (claims 26-35). A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
- APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
 - Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached ~~hereto~~ to Paper No. 3. CORRECTION IS REQUIRED.
 - The proposed drawing correction filed on _____ has been approved by the examiner. CORRECTION IS REQUIRED.
 - Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
 - Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

Attachments:

- Examiner's Amendment
- Examiner Interview Summary Record, PTO-413
- Reasons for Allowance
- Notice of References Cited, PTO-892
- Information Disclosure Citation, PTO-1449

- Notice of Informal Application, PTO-152
- Notice re Patent Drawings, PTO-948
- Listing of Bonded Draftsmen
- Other

Frank E. Werner
FRANK E. WERNER 6/96
PRIMARY EXAMINER GROUP 3100



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: Box ISSUE FEE
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

BUCHANAN INGERSOLL PLLC
ONE OXFORD CENTRE
20TH FLOOR
301 GRANT STREET
PITTSBURGH, PA 15219-1410

Note attached communication from the Examiner
 This notice is issued in view of applicant's communication filed _____

**NOTICE OF ALLOWANCE
AND ISSUE FEE DUE**

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
80/452,646	04/25/03	012	WERNER, T	7-10-04 2004
First Named Applicant				
TITLE OF INVENTION				
AUTOMATED SYSTEM FOR SELECTING AND DELIVERING PACKAGES FROM A STORAGE AREA				
ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY
80/452,646	114-072-000	072	UTILITY	NO

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.
PROSECUTION ON THE MERITS IS CLOSED.**

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY Status shown above.
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the patent and Trademark Office of the change in status, or
 B. If the Status is the same, pay the FEE DUE shown above.

II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.

III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communication prior to issuance to Box ISSUE FEE unless advised to contrary.

If the SMALL ENTITY is shown as NO:

A. Pay FEE DUE shown above, or
B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

242-62500

PART B—ISSUE FEE TRANSMITTAL

ING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE. Blocks 2 through 6 should be completed where appropriate. All further correspondence including the Issue Fee Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to addressee entered in Block 1 unless you direct otherwise, by: (a) specifying a new correspondence address in Block 3 below; or (b) providing the PTO with a separate "FEE ADDRESS" for maintenance fee notifications with the payment of Issue Fee or thereafter. See reverse for Certificate of Mailing.

1. CORRESPONDENCE ADDRESS <i>RIC</i> E-mail: ric@ing.com 1000 Peachtree Street, N.E. Atlanta, Georgia 30309 Fax: (404) 522-1410	2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change) INVENTOR'S NAME RECEIVED Street Address Publishing Division City, State and ZIP Code SEP 9 1996 CO-INVENTOR'S NAME Street Address GP City, State and ZIP Code <input type="checkbox"/> Check if additional changes are on reverse side
------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED		
08-452-646	01/11/96	11	HEINRICH, E	2107 08/06/96		
First Named Applicant						
TITLE OF INVENTION AUTOMATIC MAIL BOX FOR SELECTING AND DELIVERING PACKAGES FROM A STORAGE AREA						
ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
3	4370,000	672	UTILITY	YES	\$625.00	09/06/96

3. Correspondence address change (Complete only if there is a change)	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.
<ol style="list-style-type: none"> 1 Buchanan Ingersoll, P. 2 Lynn J. Alstadt 3 _____ 	

DO NOT USE THIS SPACE	
810 BL 09/10/96 00452144 1243 325.00 CR	
5. ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type)	
(1) NAME OF ASSIGNEE Automated Healthcare, Inc. (2) ADDRESS: (CITY & STATE OR COUNTRY) Pittsburgh, PA	
A. <input type="checkbox"/> This application is NOT assigned. <input checked="" type="checkbox"/> Assignment previously submitted to the Patent and Trademark Office. <input type="checkbox"/> Assignment is being submitted under separate cover. Assignments should be directed to Box ASSIGNMENTS. PLEASE NOTE: Unless an assignee is identified in Block 5, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.	
6a. The following fees are enclosed: <input checked="" type="checkbox"/> Issue Fee <input type="checkbox"/> Advance Order - # of Copies _____ 6b. The following fees should be charged to: DEPOSIT ACCOUNT NUMBER 02-4553 (ENCLOSE PART C) <input type="checkbox"/> Issue Fee <input type="checkbox"/> Advance Order - # of Copies _____ <input checked="" type="checkbox"/> Any Deficiencies in Enclosed Fees	
The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee to the application identified above. (Authenticate Signature) <i>Lynn J. Alstadt</i> (Date) 09/06/96 <small>NOTE: An issue fee will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown in the records of the Patent and Trademark Office.</small>	

1. TRANSMIT THIS FORM WITH FEE-CERTIFICATE OF MAILING ON REVERSE

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

DEPT. OF COM.

Box ISSUE FEE
Commissioner of Patents and Trademarks
Washington, D.C. 20231

DOJ

on September 5, 1996

(Date)

Vicki Cremonese

(Name of person making deposit)

(Signature)

(Date)

Note: If this certificate of mailing is used, it can only be used to transmit the Issue Fee. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Office of Information Systems, Patent and Trademark Office, Washington, D.C. 20231, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, (Project 0651-0033), Washington, D.C. 20503. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Box Issue Fee, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

① MJ
10/11

Group Art Unit 3107	:	PATENT
Examiner F. Werner	:	
In re application of	:	AN AUTOMATED SYSTEM FOR SELECTING AND DELIVERING PACKAGES FROM A STORAGE AREA
Sean C. McDonald	:	
Serial No. 08/452,646	:	
Filed May 25, 1995	:	
Allowed June 6, 1996	:	

LETTER

Pittsburgh, Pennsylvania 15219

September 5, 1996

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

Please substitute the enclosed ten (10) sheets of drawings for those originally filed with the application. Entry of these drawings overcomes the objections to Figures 1 thru 3, 5, 6, 7, 10, 11, 15 and 19. The remaining drawings were approved.

A copy of the Draftsman's Rejection Sheet is enclosed. Entry of these drawings overcomes all of the objections there listed.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

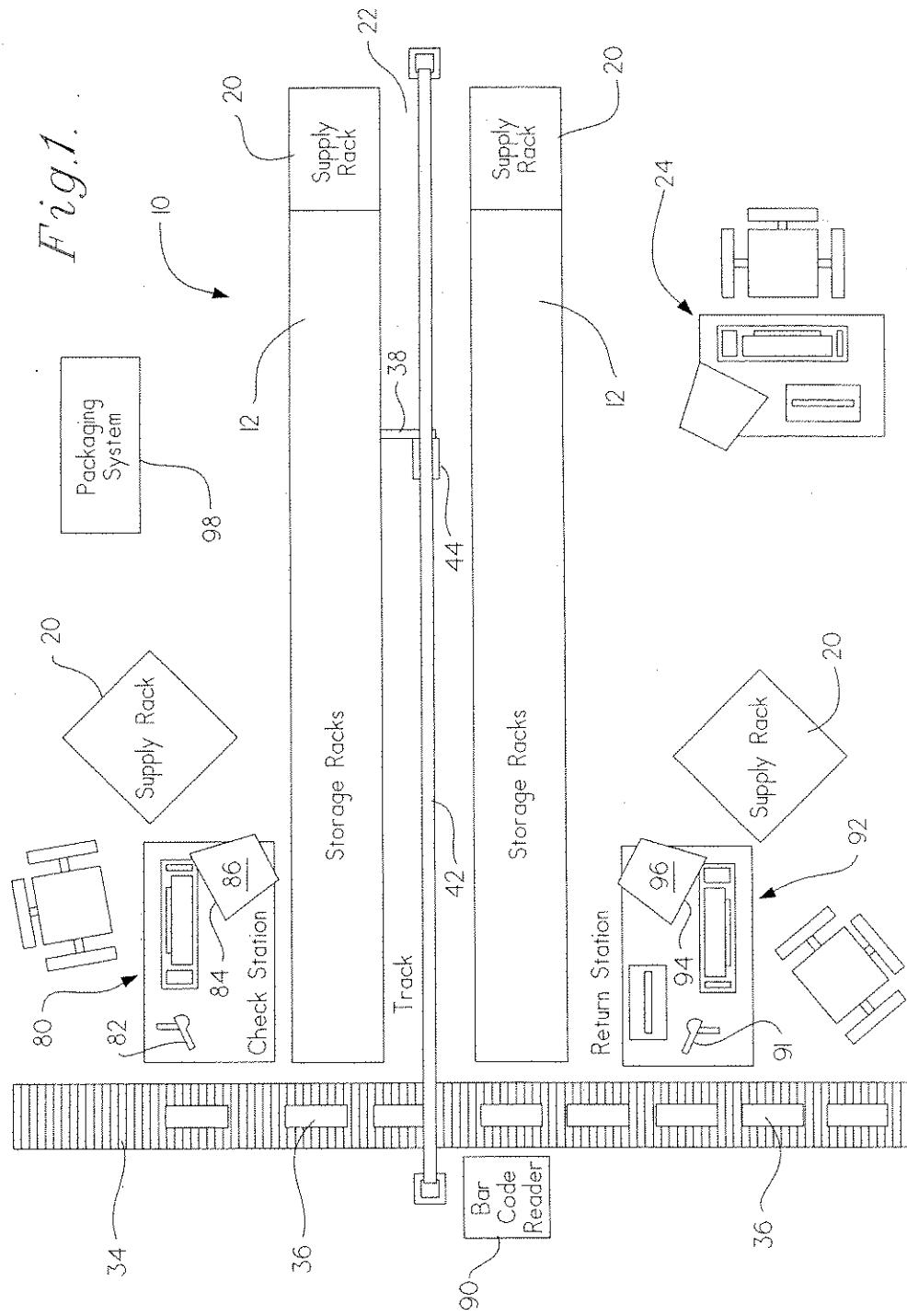
By *Lynn J. Alstadt*
Lynn J. Alstadt
Registration No. 29,362

(412) 562-1632

RECEIVED
U.S. PATENT AND TRADEMARK OFFICE
SEP 6 1996
MURKIN, ROBERT S.
REGISTRATION NO. 29,362

REF ID: U.S. FIG. 6
E1 CLASS SUBCLASS
DRAFTSMAN 223

Fig. 1.



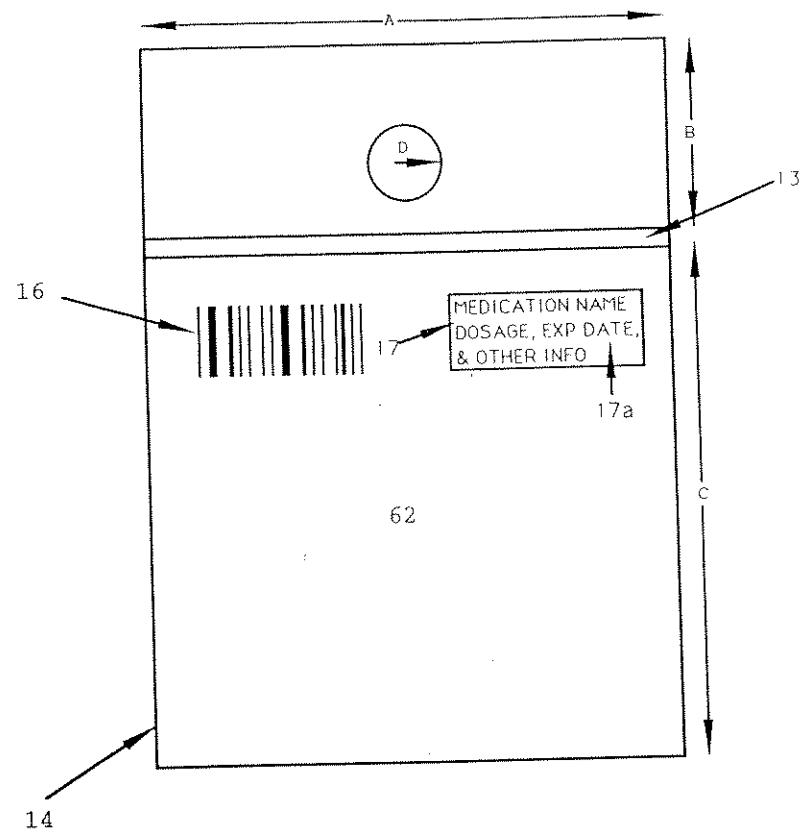


FIGURE 2

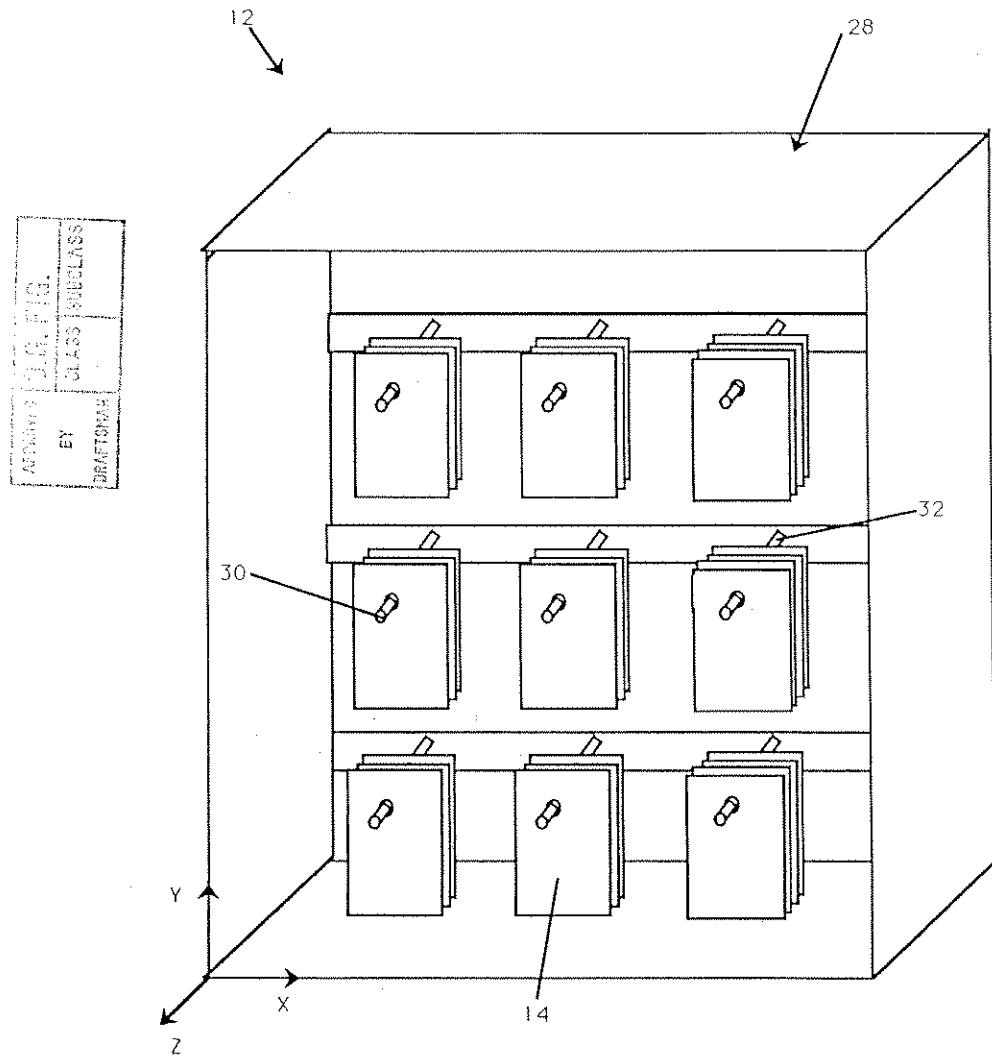
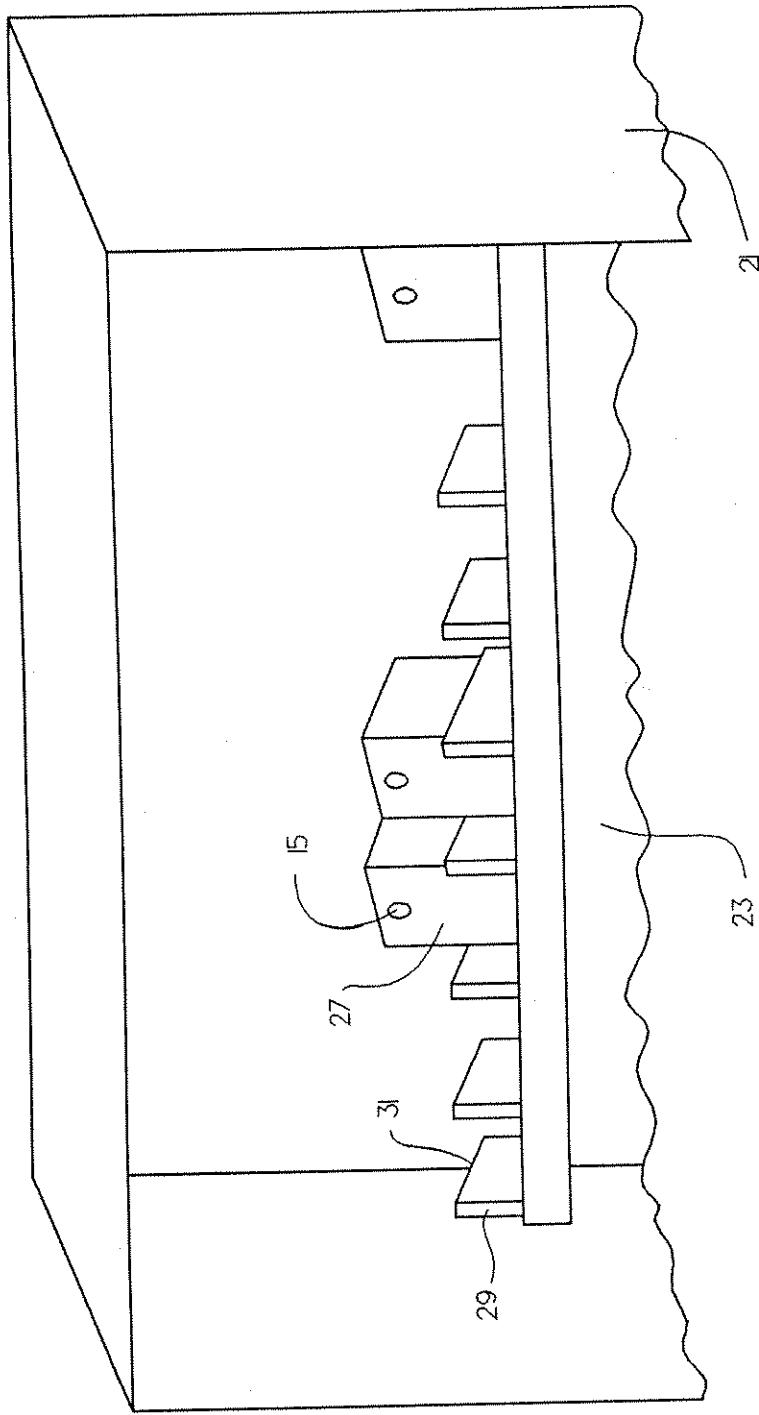


FIGURE 3

Figure 5

ATTACH FIG. 5
BY GLASS SUBCLASS
DRAFTSMAN



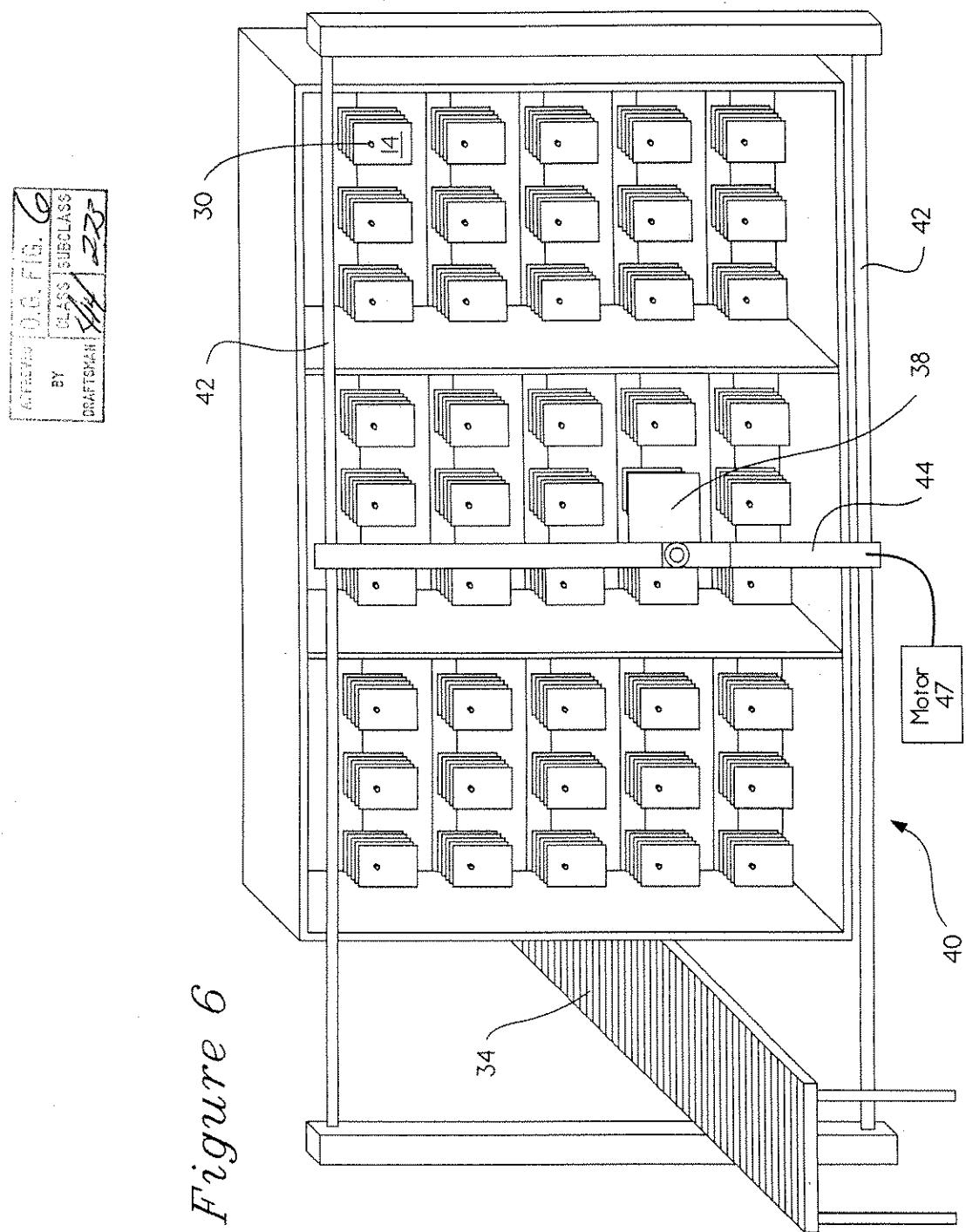


Figure 6

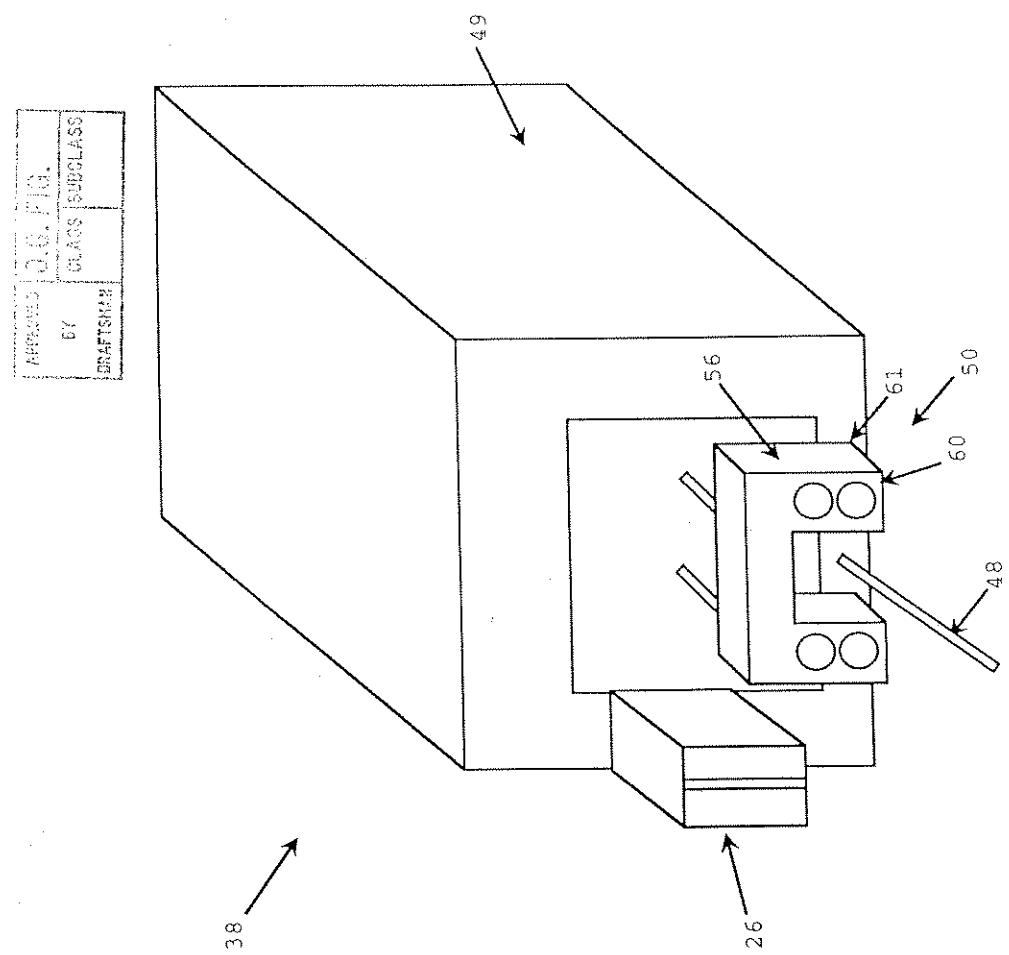


FIGURE 7

FIGURE 10

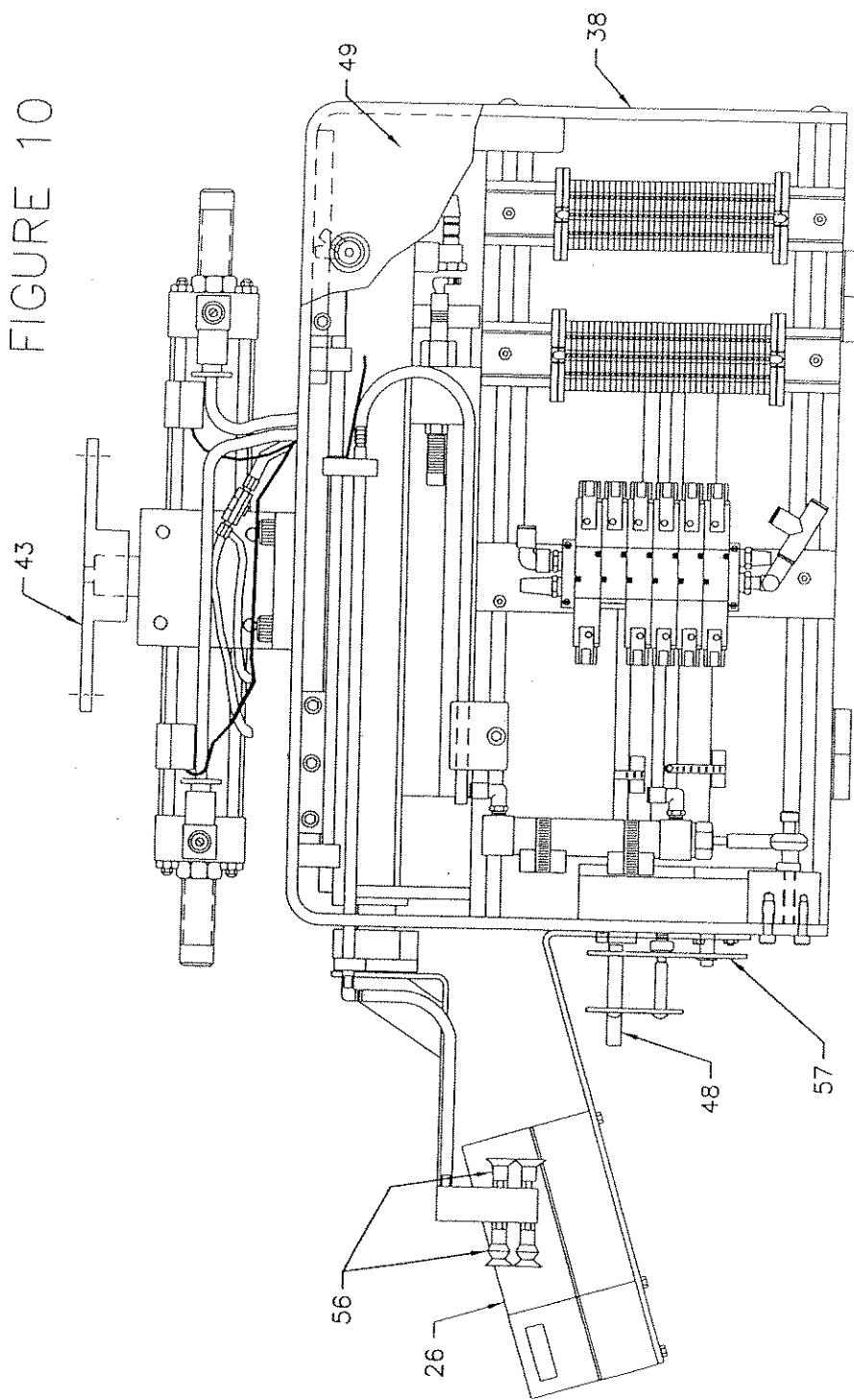


Figure 11

APPLICANT: S.C. FIGS.
BY
ULASS SUBCLASS
DRAFTSMAN

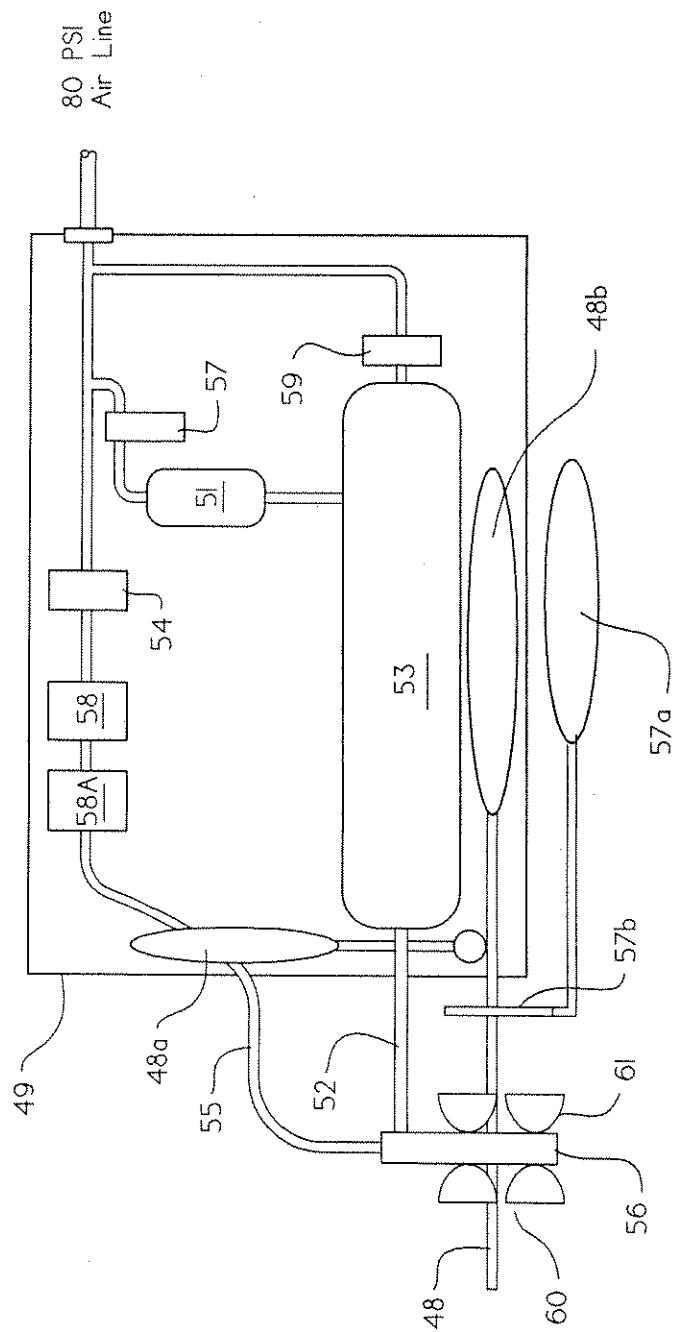


Figure 15

APPLICANT: O.C. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

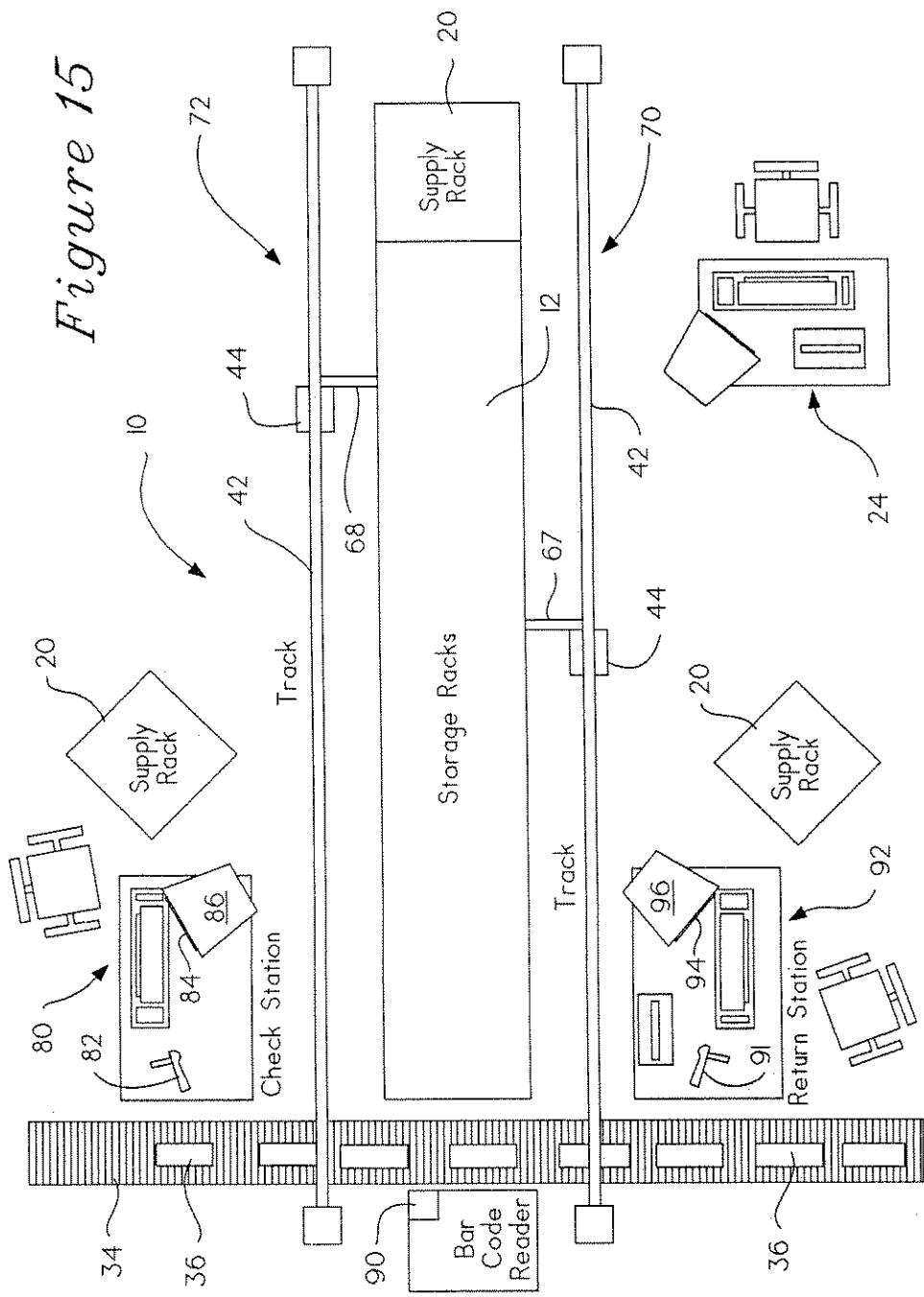
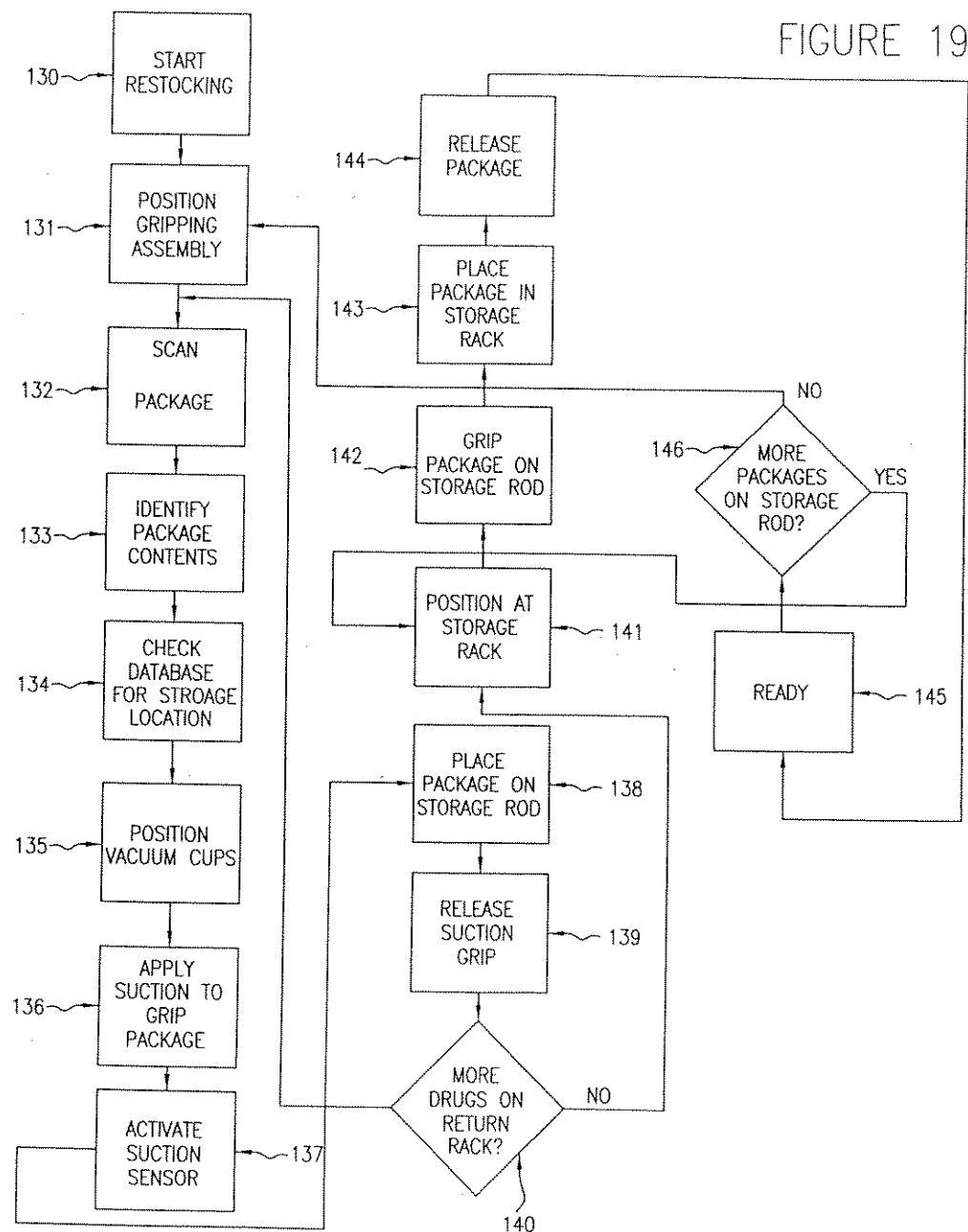


FIGURE 19





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
06/152,646	05/25/95	MCDONALD	S 950441
		4102/0911	WE RUE HENRY EXAMINER
			ART UNIT PAPER NUMBER
		3107	
DATE MAILED: 09/11/96			

NOTICE OF DRAWING REQUIREMENTS

Corrected/substituted drawings for the above-identified application, received in the PTO on 9-6-96, are still considered informal for the reason(s) identified on the attached Form PTO-948.

Applicant has the time remaining in the response period set in the Notice of Allowability or Notice of Drawing Requirements mailed _____ to overcome the objections raised in the attached Form PTO-948. This response period may be extended under the provisions of 37 CFR 1.136 (a) by filing the appropriate request and fee before the end of the six month statutory period for response.

The PTO delayed in reviewing the corrected drawings. Applicant is given ONE month time limit from the date of this letter to provide corrected drawings. NO EXTENSION OF THIS TIME LIMIT MAY BE GRANTED UNDER EITHER 37 CFR 1.136(a) or (b). See MPEP 714.03. However, the response period set in the Notice of Allowability or Notice of Drawing Requirements mailed 6-6-96 may be extended under the provisions of 37 CFR 1.136(a) by filing the appropriate request and fee before the end of the six month statutory period for response.

The PTO delayed in reviewing the corrected drawings. Applicant is given ONE month time limit from the date of this letter to provide corrected drawings. NO EXTENSION OF THIS TIME LIMIT MAY BE GRANTED UNDER EITHER 37 CFR 1.136(a) or (b). See MPEP 714.03

ATTACHMENT: PTO-948

Joshua Chase
PATENT AND TRADEMARK OFFICE

9-11-96
DATE

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

PTO Draftpersons review all originally filed drawings regardless of whether they are designated as formal or informal. Additionally, patent Examiners will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review to the Drawing Review Branch, 703-305-8404.

The drawings filed (insert date) 9-6-96, are
 not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.
 objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
Black ink. Color:

- Not black solid lines. Fig(s) _____
- Color drawings are not acceptable until petition is granted. Fig(s) _____

2. PHOTOGRAPHS. 37 CFR 1.84(b)

- Photographs are not acceptable until petition is granted. Fig(s) _____
- Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____
- Poor quality (half-tone). Fig(s) _____

3. GRAPHIC FORMS. 37 CFR 1.84 (d)

- Chemical or mathematical formula not labeled as separate figure. Fig(s) _____
- Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) _____
- Individuals waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____

4. TYPE OF PAPER. 37 CFR 1.84(c)

- Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) _____
- Erasures, alterations, overwritings, interlineations, cracks, creases, and folds copy machine marks not accepted. Fig(s) _____
- Mylar, velum paper is not acceptable (too thin). Fig(s) _____

5. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:

21.6 cm. by 35.6 cm. (8 1/2 by 14 inches)	21.6 cm. by 33.1 cm. (8 1/2 by 13 inches)	21.6 cm. by 27.9 cm. (8 1/2 by 11 inches)	21.0 cm. by 29.7 cm. (DIN size A4)
All drawing sheets not the same size. Sheet(s) _____	Drawing sheet not an acceptable size. Sheet(s) _____		

6. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Paper size			
<small>21.6 cm. X 35.6 cm. 21.6 cm. X 33.1 cm. 21.6 cm. X 27.9 cm. 21.0 cm. X 29.7 cm. (8 1/2 X 14 inches) (8 1/2 X 13 inches) (8 1/2 X 11 inches) (DIN Size A4)</small>			
T .51 cm. (2")	2.5 cm. (1")	2.5 cm. (1")	.5 cm.
L .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	
R .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.5 cm.
B .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.0 cm.

Margins do not conform to chart above.

Sheet(s) 16-16-18
 Top (T) Left (L) Right (R) Bottom (B)

7. VIEWS. 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

- All views not grouped together. Fig(s) _____
- Views connected by projection lines or lead lines. Fig(s) _____
- Partial views. 37 CFR 1.84(h) 2

COMMENTS:

- View and enlarged view not labeled separately or properly. Fig(s) _____
- Sectional views. 37 CFR 1.84 (h) 3
- Hatching not indicated for sectional portions of an object. Fig(s) _____
- Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes. Fig(s) _____
- ARRANGEMENT OF VIEWS. 37 CFR 1.84(j)
Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
- SCALE. 37 CFR 1.84(k)
Scale not large enough to show mechanism with crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
- Indication such as "actual size" or scale 1/2" not permitted. Fig(s) _____
- CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (except for color drawings). Fig(s) _____
- SHADING. 37 CFR 1.84(m)
Solid black shading areas not permitted. Fig(s) _____
- Shade lines, pale, rough and blurred. Fig(s) _____
- NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1) Fig(s) _____
- Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
- English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) _____
- Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3) Fig(s) _____
- LEAD LINES. 37 CFR 1.84(q)
Lead lines cross each other. Fig(s) _____
- Lead lines missing. Fig(s) _____
- NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____
- NUMBER OF VIEWS. 37 CFR 1.84(u)
Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
- View numbers not preceded by the abbreviation Fig. Fig(s) _____
- CORRECTIONS. 37 CFR 1.84(w)
Corrections not made from prior PTO-948. Fig(s) 16-18
- DESIGN DRAWING. 37 CFR 1.152
Surface shading shown not appropriate. Fig(s) _____
- Solid black shading not used for color contrast. Fig(s) _____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107 : PATENT
Examiner F. Werner :
In re application of : **AN AUTOMATED SYSTEM
FOR SELECTING AND
DELIVERING PACKAGES
FROM A STORAGE AREA**
Sean C. McDonald :
Serial No. 08/452,646 :
Filed May 25, 1995 :
Allowed June 6, 1996 :

RECEIVED

96 OCT - 7 AM 11:26
PROSPECTUS
PUBLISHING BRANCH

LETTER

Pittsburgh, Pennsylvania 15219

October 4, 1996

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

Please substitute the enclosed six (6) sheets of drawings containing Figures 2, 10, 16, 17, 18 and 19 for those filed on September 9, 1996. These drawings are believed to overcome the objections raised by the Official Draftsman to the figures previously submitted.

A copy of the Draftsman's Objections is also enclosed.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

By *Lynn J. Alstadt*
Lynn J. Alstadt

Registration No. 29,362

(412) 562-1632

FIGURE 2

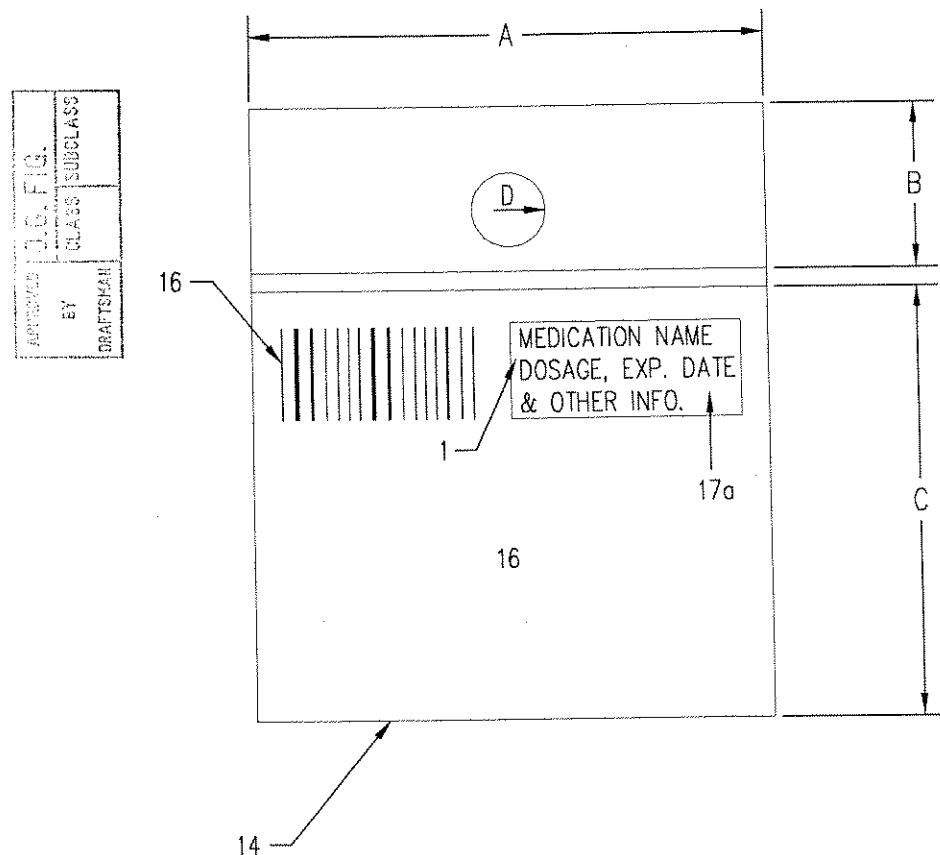
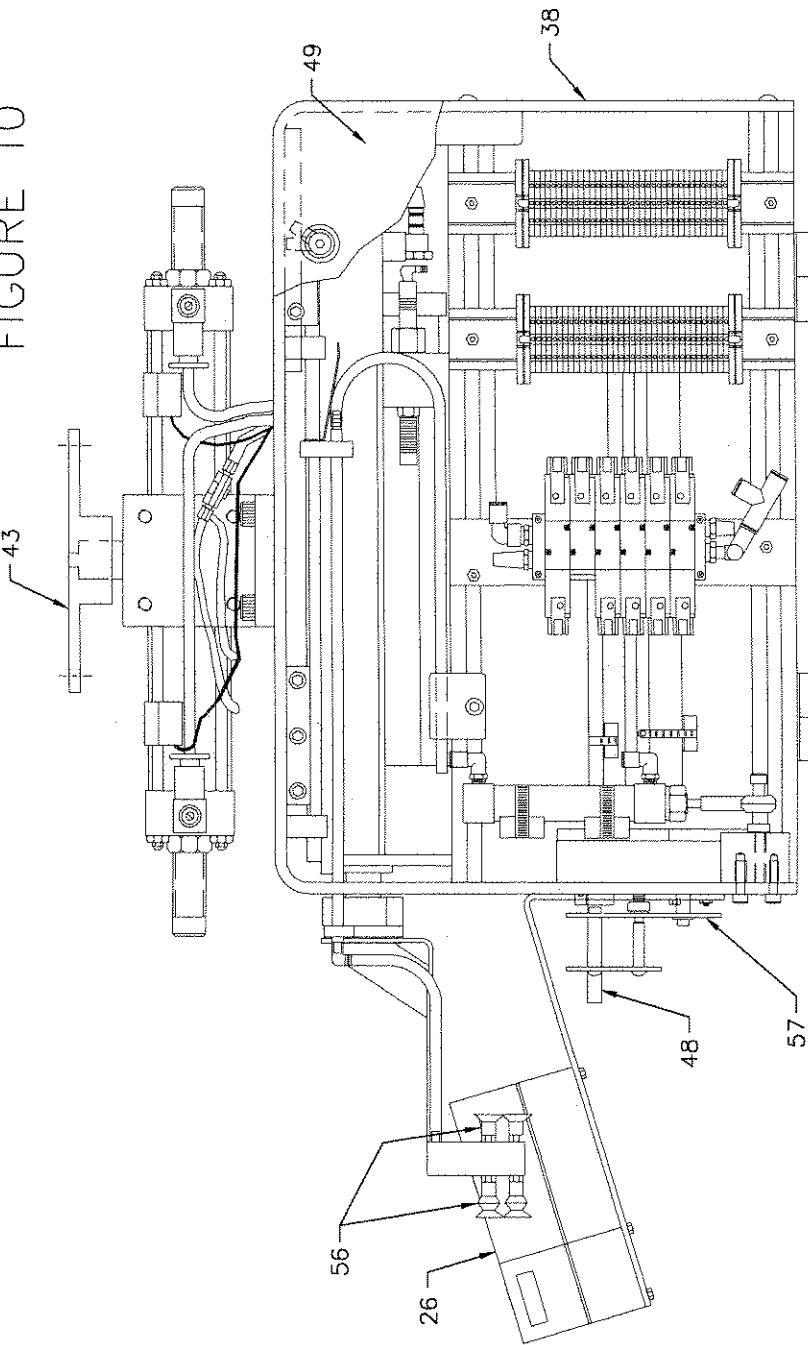
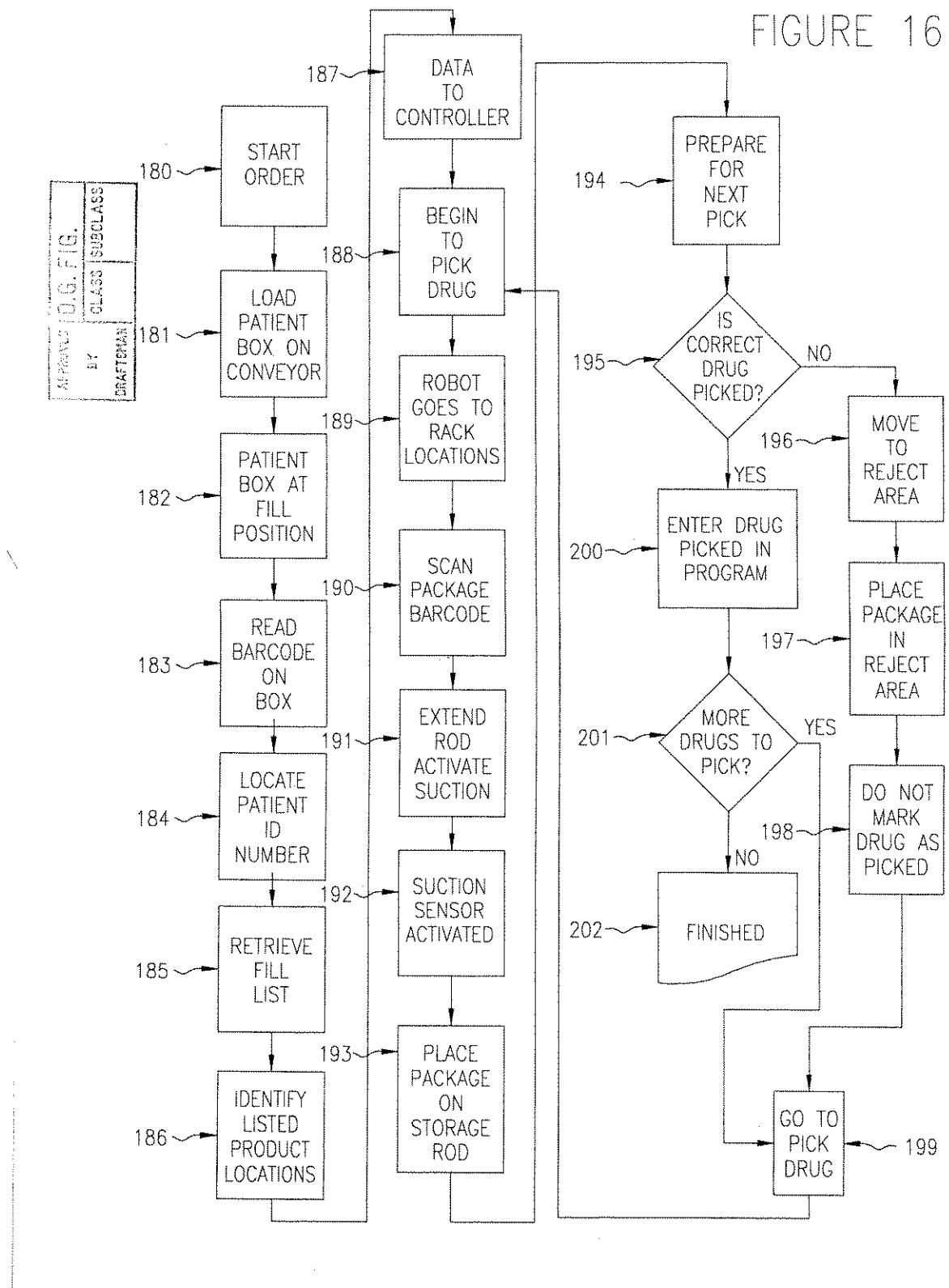


FIGURE 10

APPLIC'G U.S. FIG.
BY CLASS SUBCLASS
DRAFTSMAN





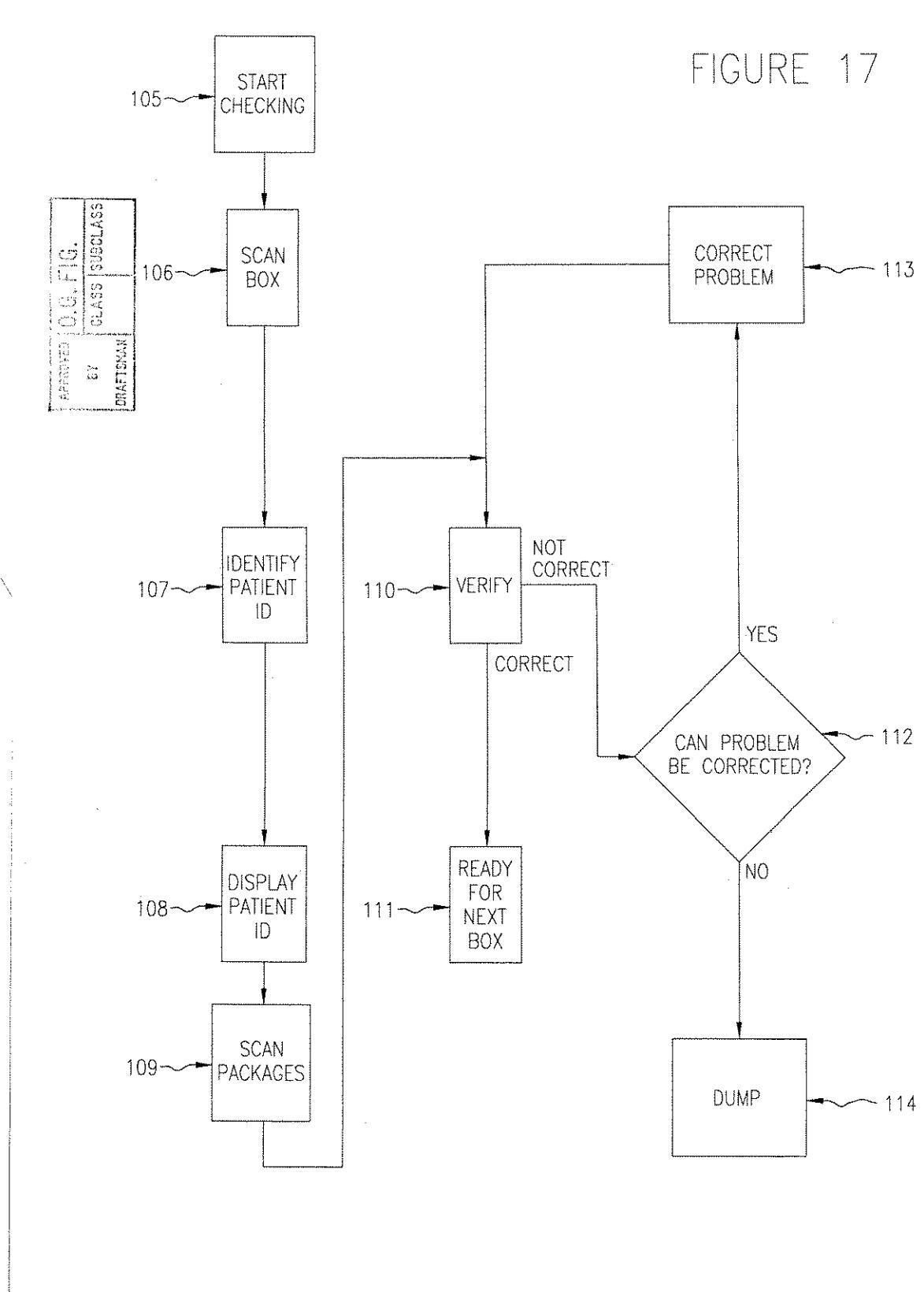


FIGURE 18

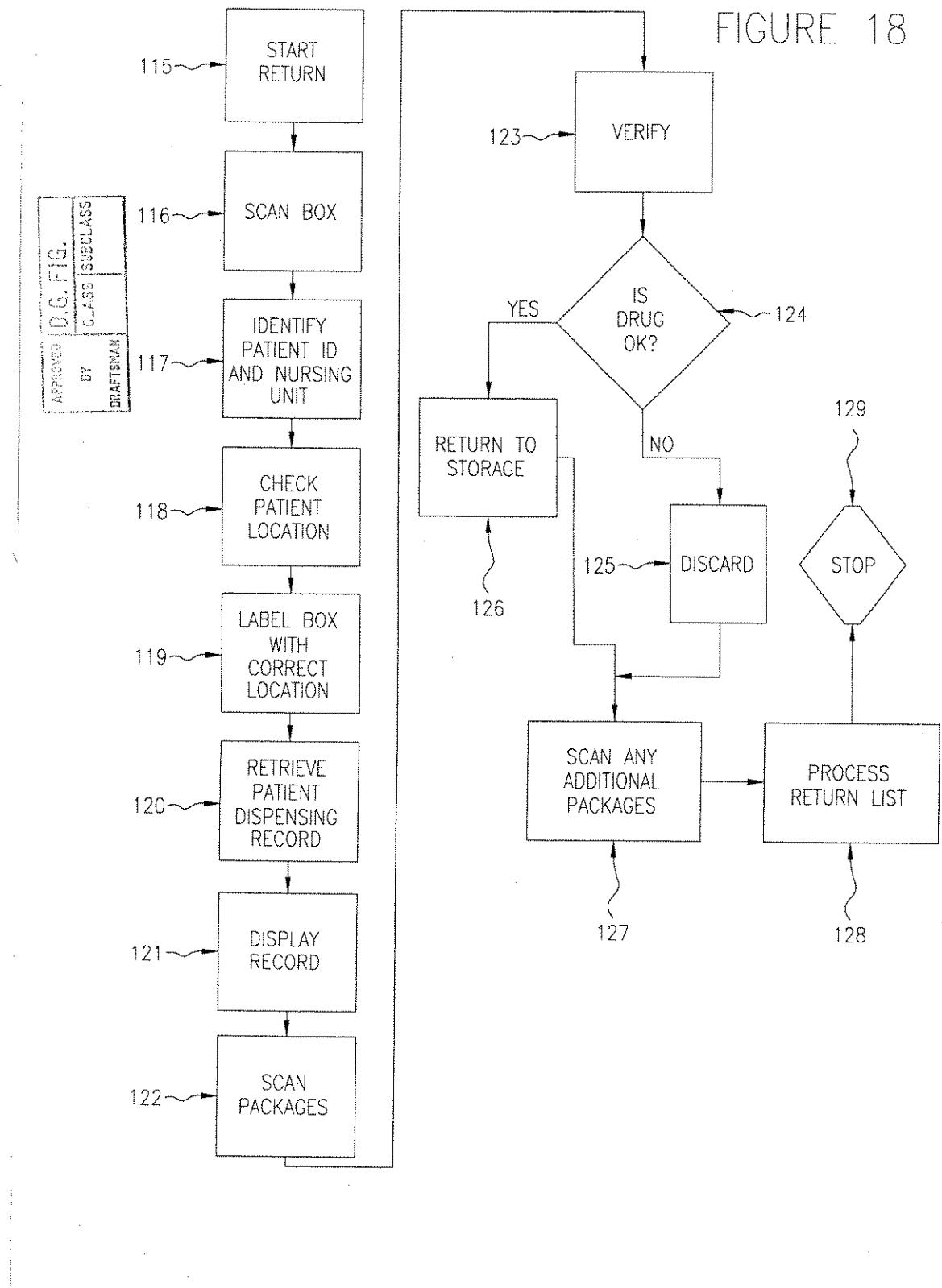
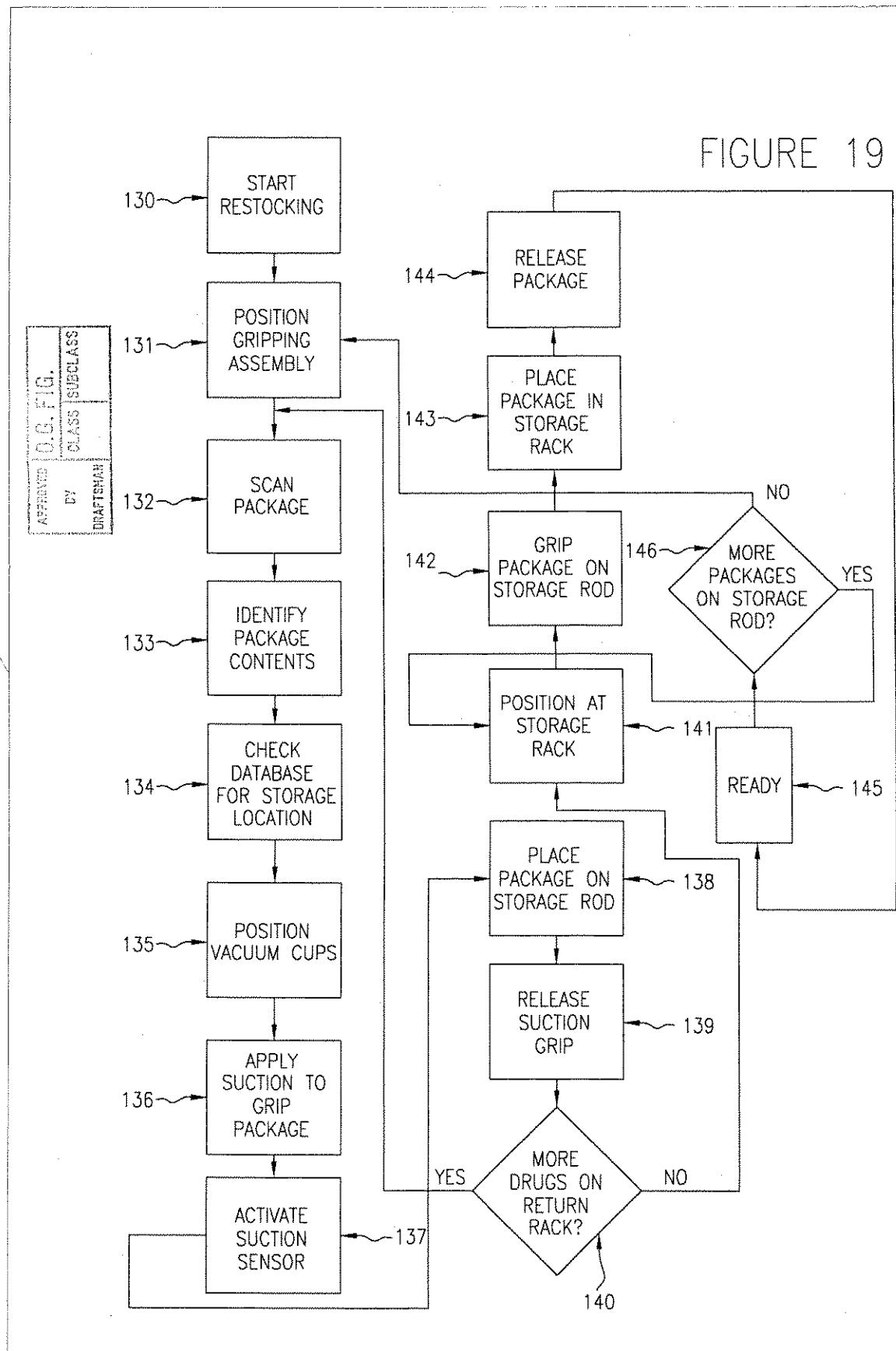


FIGURE 19



PTO UTILITY GRANT
Paper Number 13

The Commissioner of Patents
and Trademarks

The
United
States
of
America



Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

Commissioner of Patents and Trademarks

Attest

PATENT APPLICATION FEE DETERMINATION RECORD					Application or Docket Number 452646
Effective October 1, 1994					
CLAIMS AS FILED - PART I					
(Column 1)		(Column 2)			
FOR	NUMBER FILED	NUMBER EXTRA			
BASIC FEE					
TOTAL CLAIMS	XZ	minus 20 =	*		
INDEPENDENT CLAIMS	X	minus 3 =	*		
MULTIPLE DEPENDENT CLAIM PRESENT					
* If the difference in column 1 is less than zero, enter "0" in column 2.					
CLAIMS AS AMENDED - PART II					
(Column 1)		(Column 2)		(Column 3)	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total	*	Minus	**	=
	Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
(Column 1)		(Column 2)		(Column 3)	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total	*	Minus	**	=
	Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
(Column 1)		(Column 2)		(Column 3)	
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total	*	Minus	**	=
	Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
OTHER THAN SMALL ENTITY					
OR	RATE	FEES	OR	RATE	FEES
		365.00			730.00
OR	x\$11=		OR	x\$22=	
	x38=			x76=	
OR	+120=		OR	+240=	
	TOTAL	365		TOTAL	
OTHER THAN SMALL ENTITY					
OR	RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
	x\$11=			x\$22=	
OR	x38=		OR	x76=	
	+120=			+240=	
OR	TOTAL	ADDITIONAL FEE	OR	TOTAL	ADDITIONAL FEE
OTHER THAN SMALL ENTITY					
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
Total	*	Minus	**	=	
Independent	*	Minus	***	=	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
(Column 1)		(Column 2)		(Column 3)	
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total	*	Minus	**	=
	Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM					
OTHER THAN SMALL ENTITY					
OR	RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
	x\$11=			x\$22=	
OR	x38=		OR	x76=	
	+120=			+240=	
OR	TOTAL	ADDITIONAL FEE	OR	TOTAL	ADDITIONAL FEE

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the Highest Number Previously Paid For IN THIS SPACE is less than 3, enter "3".

The Highest Number Previously Paid For* (Total of Independent) is the highest number found in the appropriate box in column 1.

MULTIPLE DEPENDENT CLAIM FEE CALCULATION SHEET (FOR USE WITH FORM PTO-875)						SERIAL NO.		FILING DATE		
						APPLICANT(S)				
						CLAIMS				
	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT		*	*	*	
	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.
1							51			
2							52			
3							53			
4							54			
5							55			
6							56			
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44							94			
45							95			
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47							97			
48							98			
49							99			
50							100			
TOTAL IND.							TOTAL IND.			
TOTAL DEP.							TOTAL DEP.			
TOTAL CLAIMS							TOTAL CLAIMS			

PAGE DATA ENTRY CODING SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
1ST EXAMINER RANZLEY DATE 6.21.05
2ND EXAMINER DATE

10/452646

APPLICATION NUMBER	TYPE APPL	FILING DATE MONTH DAY YEAR	SPECIAL HANDLING	GROUP ART UNIT	CLASS	SHEETS OF DRAWING
10/452646	1	5/25/05	2	31A7	A1A	19
1	2	365	✓	RSA		

CONTINUITY DATA

PARENT APPLICATION SERIAL NUMBER	PCT APPLICATION SERIAL NUMBER	PARENT PATENT NUMBER	PARENT FILING DATE
10/825945	PCT/1/	10/825945	6.21.05
10/825946	PCT/1/	10/825946	6.21.05
10/825947	PCT/1/	10/825947	6.21.05
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